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BIENNIAL REPORT

OF THE

COMMISSIONERS OF FISHERIES

AND THE

STATE FISH AND GAME WARDEN

OF

WISCONSIN.

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1897-1898.

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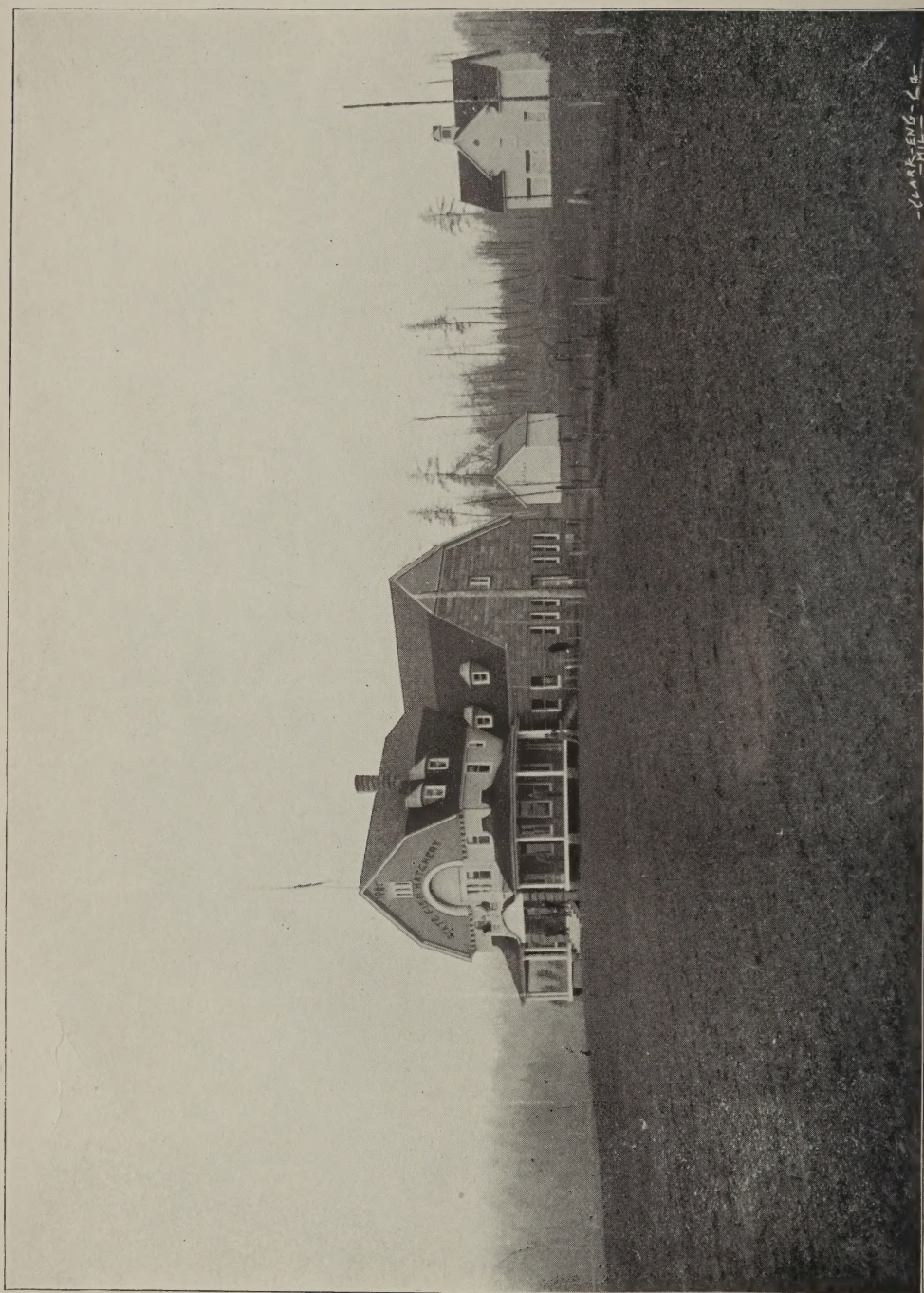
MADISON, WIS.:  
DEMOCRAT PRINTING COMPANY, STATE PRINTER,  
1899.

1899 State of Wisconsin Survey









FISH HATCHERY AT BAYFIELD.

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### COMMISSIONERS.

<i>Name.</i>	<i>Residence.</i>	<i>Term expires.</i>
The Governor ex-officio.		
Edwin E. Bryant, President.....	Madison .....	April 1, 1899.
W. J. Starr.....	Eau Claire .....	April 1, 1905.
Calvert Spensley, Sec'y and Treas.....	Mineral Point .....	April 1, 1903.
James J. Hogan.....	La Crosse .....	April 1, 1901.
Henry D. Smith.....	Appleton .....	April 1, 1899.
Currie G. Bell.....	Bayfield .....	April 1, 1899.
James Nevins, Superintendent.....	Madison.	
E. A. Birge, Secy. Madison.		

### STATE FISH AND GAME WARDEN.

James T. Ellarson.....	Wautoma.....	May 15, 1899.
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591  
10756  
1897/1898

## REPORT OF THE COMMISSIONERS OF FISHERIES.

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*To the Honorable, the Legislature of Wisconsin:*

GENTLEMEN:—The commissioners of fisheries of the state of Wisconsin, in compliance with the law prescribing their duties, present herewith a report of their transactions for the two years ending December 31st, 1898.

### A. GENERAL STATEMENT OF TRANSACTIONS.

The two years included in this report have been a period of great activity on the part both of the commissioners and those in their employ. During this time a large and admirably equipped hatchery has been erected at Bayfield, and the operations of the hatchery maintained for many years at Milwaukee have been suspended and transferred to Oshkosh. Much labor has, therefore, been necessary in addition to the ordinary work of the commission.

The work of taking, hatching and distributing spawn and young and adult fish now extends throughout the year, and no sooner is the handling of one variety of fish completed than it is necessary to begin work upon another. The labors, therefore, of the commission are unceasing and make great demands on their employes for unsparing and efficient service. The commissioners are glad to give hearty commendation to the faithful services of all their employes, and especially of the superintendent, Mr. James Nevin.

*Report of Commissioners.*

## B. DISTRIBUTION OF FISH.

The following table shows the number and kinds of fish and fry distributed in the waters of the state during the two years covered by this report:

Names of Species.	1897.	1898.
Brook trout.....	1,949,000	1,902,500
Rainbow trout.....	1,191,000	1,155,000
Lake trout (fry).....	10,000,000	7,512,000
Lake trout (fingerlings).....	10,000	
Whitefish.....	18,000,000	3,000,000
Wall-eyed pike.....	23,300,000	53,980,000
Muskallonge.....	11,000,000	
Black bass.....	4,500	112,200
White bass.....	9,115	23,420
Totals.....	65,463,615	67,685,120

A detailed statement, showing the places where distribution was made, is appended to this report. Large as is this output the calls for fry and adult fish are continually increasing and the demands are far in excess of the number which the commissioners can possibly supply at present. Owing to the overcrowded condition of the Madison hatchery, the number of trout fry during the past two years has not been so great as in the past, but, with the increased accommodations afforded by the Bayfield hatchery, the number will rapidly increase.

## C. STATEMENT OF APPROPRIATIONS AND EXPENDITURES.

Appropriation from January 1, 1897, to January 1, 1898.....	\$20,000 00
Special appropriation for Bayfield Hatchery, 1897.....	10,000 00
Appropriation from January 1, 1898, to January 1, 1899.....	20,000 00
The expenditures for the same period have been:	
For the year, January 1, 1897, to January 1, 1898.....	\$30,100 08
For the year, January 1, 1898, to January 1, 1899.....	19,776 00

The accompanying account of the treasurer of the commission sets forth more fully the object, nature and distribution of the expenditures. The commissioners have made every effort to economize their resources and to obtain the largest results and full value for money paid out, and they feel that as much as possible has been realized from the funds which the state has entrusted to their care.



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*Report of Commissioners.*

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## D. BAYFIELD HATCHERY.

In the last biennial report an account was given of the lands acquired by the state at Bayfield and the improvements, both temporary and permanent, made there. The legislature of 1897 appropriated \$10,000 for the building of a fish hatchery at this place. During the year 1897 this hatchery was built and was completed in time for use during the winter of 1897-8, although the building was finished at so late a date that it could not be filled with eggs. The hatchery building is large, commodious and beautiful, as will be seen from the photograph reproduced herewith. The walls of the lower story are constructed of Lake Superior sandstone. The front of the building is two stories high, containing offices on the lower floor, and accommodation for the family of the superintendent in the second story. The hatchery room, in the rear, is 50x80 feet in size, and is, therefore, capable of containing an immense number of eggs.

The water for supplying the hatching troughs is brought from the dam at Birch Run, described in the last report. This water has proved to be in quality and quantity all that could be desired for the hatching of food fish. The temperature of the water, as it comes from the pond on Birch Run is so low that the hatching of the trout is delayed beyond what would be the case were the water taken directly from the springs. This delay in hatching permits the distribution of the trout in the spring of the year at a time when it is both easy to place them in the streams and when there is sufficient food supply in the streams for the young fry.

To conduct the water from the dam at Birch Run to the hatching house, a wooden pipe 16 inches in diameter and 2,000 feet long was constructed and laid. The pipe is made of 2x4 hemlock pieces, and is firmly bound at intervals of two feet with heavy iron bands. The excavations for this pipe were difficult, owing to the sandy nature of the soil and the depth of the trench, which at some points was twenty feet deep. The cost of the pipe

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*Report of Commissioners.*

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line for excavating and construction and laying of pipe was \$2,543.92.

The cost of the hatchery was \$9,005.59. During the year 1897, \$1,837.34 were expended on other permanent improvements at the Bayfield hatchery. During the year 1898 there were expended on permanent improvements at the Bayfield hatchery \$2,363.78, of which sum \$1,180.04 represent the cost of the barn and ice-house, the balance being expended for other permanent improvements.

An area of about twenty-five acres around the hatchery has been graded and cleared of the innumerable stumps and logs with which it was incumbered when the commissioners took possession of the property. A beginning has been made in the construction of permanent ponds for adult fish on the lower grounds, adjacent to the hatchery. In 1896, a long flume was built through the grounds and divided into ponds for the reception of trout. This temporary structure is still in use, but the commissioners expect to continue the construction of permanent ponds banked with stone, which will take the place of this race-way. The accompanying map of the grounds shows the number, size and arrangement of the ponds as planned. Three of the ponds are now made and others will be added during the coming year.

#### E. OSHKOSH HATCHING STATION.

The report of the superintendent for 1897 shows that out of nearly 200,000,000 eggs of wall-eyed pike, which were collected in the spring of that year, and placed in the Milwaukee hatchery, only a little more than 23,000,000 were hatched and distributed. This was the first time that pike eggs had ever died at the Milwaukee hatchery. The cause of the death was undoubtedly the low temperature of the water, caused by the extension into deeper water of the intake of the Milwaukee waterworks. This effect of the low temperature of the water on the eggs of the



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*Report of Commissioners.*

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wall-eyed pike made it impossible for the commissioners to continue longer their work at Milwaukee. Accordingly they determined to establish a temporary hatching station at Oshkosh. The park board of Oshkosh offered the commissioners a site free of charge in Lake Park, and a wooden building 30x60 feet was erected there during 1897, at a total expense of \$1,267.19. In this building were placed the wall-eyed pike eggs in the spring of 1898. Owing to low water in the Wolf river at the spawning season, the commissioners were unable to secure as many eggs as in the former year, collecting altogether 110,000,000, of which more than 50,000,000 were hatched and distributed. This proportion is a very favorable one and the Oshkosh hatching station is undoubtedly well adapted to the service which is expected of it. A considerable number of lake trout eggs will be transferred from the Bayfield hatchery to Oshkosh during the present winter, and, after hatching, distributed from Oshkosh. In this way the fry for the central and southern part of the state will be distributed more easily than from the Bayfield hatchery.

#### F. MADISON HATCHERY.

At the Madison hatchery ordinary repairs have been made sufficient to keep the property in good repair, including the replacement of sidewalks and the renewal of the bulkheads of the ponds. The supply of water at this hatchery has not increased during the past two years, though perhaps it has not diminished. In the years immediately preceding this report the supply of water declined rapidly and greatly. As a result of the continued diminution of water supply the ponds have become unable to maintain the breeding fish in the best condition, and their fatality has consequently diminished. The commissioners expect to transfer a considerable number of the fish to the Bayfield hatchery, where there will be sufficient room for their proper development, as soon as the ponds at Bayfield are constructed.

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*Report of Commissioners.*

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## INLAND FISHERIES.

The inland fisheries are becoming more valuable each year. It is impossible to state their exact value or to approximate it with any degree of accuracy. Their value lies not only in the amount of food produced, but to a greater extent in the fact that they are a drawing attraction to the summer tourists, who come into this state to spend their summers and vacations in fishing and other recreations and lavishly spend their money while here. Excellent fishing in our lakes and streams also induces the summer resorters of Wisconsin to stay within the borders of our state in their search for recreation. The amount of money left within our borders on these accounts must extend into the millions of dollars annually. With an increasing number of wealthy people in the several large cities in and adjacent to our state, there is every reason to believe that this source of profit will increase in the future more rapidly than it has in the past. It is interesting to contemplate the vast amount of revenue the citizens of this state will derive from this source twenty-five years hence, if our lakes and streams are kept stocked with the better varieties of game fish, and the fish are given adequate protection by good laws rigidly enforced.

## PHEASANTS.

In accordance with the statute of 1897, the commissioners have devoted much time and a small amount of money to the propagation of pheasants. It did not seem advisable to expend the full sum which they were authorized to expend by the act of the legislature, since the enterprise was a new one, and the commissioners were aware that there were many difficulties attending the propagation of these birds. The reports of the superintendent for 1897-8 will show what has been accomplished in this direction. The work has been more difficult than the



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*Report of Commissioners.*

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commissioners anticipated, and only a small degree of success has been reached up to this time. They trust, however, that the initial difficulties are now past and that a larger measure of success will attend their efforts in the future.

#### G. CO-OPERATION OF THE RAILWAYS.

The several railway companies of the state have rendered great assistance to the work of the commissioners by extending free transportation to the fish car and to the employes of the commissioners when engaged in the distribution of fish. The fish car, "Badger," traveled over the several railway lines in the state 18,725 miles in 1897, and 21,441 miles in 1898. If the commissioners had paid regular rates for this transportation, the necessary sum would have been a large portion of the amount appropriated for their use. The commissioners desire to make acknowledgment of the great service rendered them by the railroads of the state with so much promptness and courtesy.

Two of the railways of the state have especially co-operated with the work of the commissioners in the distribution of white bass. The C. & N. W. railway and the C., M. & St. P. railway each fitted up a baggage car with tanks suitable for the distribution of adult white bass, and during the spring of 1898 they co-operated with the commissioners: the commissioners catching and distributing the bass, and the companies furnishing these cars and their free transportation. Only a limited number of these adult fish can be carried in a car at one shipment, and the time during which they can be caught and shipped is short. By the simultaneous use of these two cars and the state fish car, "Badger," a much larger number of fish could be handled than when only one car was employed. More than 23,000 bass were transplanted in the state during the spring of 1898; a number much greater than has ever been distributed in one season before.

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*Report of Commissioners.*

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H. LEGISLATION AFFECTING THE WORK OF THE COMMISSIONERS  
OF FISHERIES.

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A bill was passed by the legislature of 1897, making a close time for fishing in the Great Lakes, and a similar bill, amendatory of this act has been prepared by a joint committee from the several states bordering the Great lakes, and is to be presented to this session of the legislature. Should this bill pass and should fishing be prohibited in the Great Lakes during the spawning season of the fall, the commissioners will be unable to procure the eggs of whitefish and lake trout from the fishermen as they have done heretofore. If fishing is prohibited during this season, the commissioners will be restricted for eggs to fish which are taken by the employes. The expense, however, of providing tugs and crews is so great that the commissioners will be unable to procure eggs in large numbers, and should they attempt to take the fish in large numbers, their action would necessarily result in the death of large numbers of fish during the spawning season. It may well be doubted whether the best method of preserving the fish of the Great Lakes is by establishing a close season, or by securing the taking of eggs from all fish caught during the spawning season, and providing a place where they may be hatched and from which they may be planted in the lakes from which they were taken. However this question of policy may be decided, it is right that the legislature should understand that the enforcement of the close season will render it necessary for the commissioners of fisheries to direct most of their work to the fish of the inland lakes, unless large appropriations are made to enable the commissioners to catch fish for spawning purposes from the Great Lakes.

The fisheries of the Great Lakes form an important industry, and are worth, at a low estimate, a million dollars per year to the state. They give employment to 1,500 people.

The beneficent results of stocking Lake Superior with white-



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*Report of Commissioners.*

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fish and lake trout from the Bayfield hatchery are already apparent in the increased catch of both species.

A second matter of proposed legislation, which may affect the work of the commission relates to free transportation on the railways of the state. Since the commissioners began their work, the various railways of the state have granted free transportation to the fish and to the fish car, and to the employes of the commission while engaged in the work of distributing fish. The commissioners would respectfully request that in any bill abolishing free transportation within the state, the fish car and the employes of the commission should be excepted. If, however, it seems wise to the legislature to require the commissioners to pay for this transportation, the commissioners would request an appropriation sufficient to defray this expense made. If the commissioners are required to pay transportation for the car out of the regular appropriation made for their use, their work will be very greatly reduced.

In conclusion, the commissioners would say that the sum of money now appropriated by law is sufficient to carry on the work of propagation of fish at the hatcheries already established; to make the ordinary repairs, and to improve, by degrees, the hatcheries, especially at Bayfield and Oshkosh. If, however, it should seem wise to the legislature to enact laws which will seriously increase the expenses of conducting the operations of the commissions, it is obvious that their work must be restricted, unless the necessary additional funds are appropriated by the legislature. Respectfully submitted,

EDWIN E. BRYANT,  
E. A. BIRGE,  
CALVERT SPENSLEY,  
JAS. J. HOGAN,  
WILLIAM J. STARR,  
CURRIE G. BELL,  
HENRY D. SMITH.

*Commissioners of Fisheries.*

*Report of Treasurer.*

## TREASURER'S REPORT.

STATEMENT FOR 1897.

1897.	Dr.		
Jan. 1. To balance on hand.....		\$26 08	.....
Annual appropriation .....		20,000 00	.....
Special appropriation .....		10,000 00	.....
W. W. Warner, acct. whitefish sold.....		44 00	.....
J. D. Latier for boat.....		30 00	.....
			\$30,100 08
	Cr.		
Dec. 31. By salary, Jas. Nevin, Supt., 12 mos.....		\$1,883 30	.....
Salary, Arthur Sykes, clerk, 12 mos.....		770 00	.....
			\$2,653 30
MADISON HATCHERY.			
Salary, Valentine Maag, foreman, 12 mos.....		\$770 00	.....
Salary, Chris. Hutchinson, 12 mos.....		650 00	.....
Salary, Jas. Foy, 5½ mos.....		272 50	.....
Salary Frank Suthers, 5 mos.....		250 00	.....
Salary, Jas. Brisse, 3 mos.....		180 00	.....
Disbursements for sundry employmen.....		12 50	.....
Disbursements for fish food.....		983 50	.....
Disbursements, distributing fish.....		259 09	.....
Disbursements, propagation of pheasants.....		112 96	.....
Disbursements for permanent improvements..		124 84	.....
Disbursements, postage, printing and stationery		74 78	.....
Telephone rent .....		48 00	.....
Disbursements for supplies for barn.....		125 02	.....
Disbursements for general supplies.....		393 33	.....
Miscellaneous expenditures .....		176 82	.....
			4,433 39
MILWAUKEE HATCHERY.			
Salary, John Maag, officer in charge, 7 mos....		\$511 50	.....
Disbursements, collecting whitefish spawn....		704 52	.....
Disbursements, gathering pike spawn.....		350 40	.....
Disbursements, distributing fish.....		148 51	.....
Rent of hatching room.....		300 00	.....
Rent of water.....		300 00	.....
Disbursements for supplies.....		82 59	.....
			2,397 52
BAYFIELD HATCHERY.			
Salary, Henry Sykes, foreman, 12 mos.....		\$800 00	.....
Salary, A. M. Anderson, 7 mos.....		360 00	.....
Salary, Jas. Foy, 3½ mos.....		157 50	.....
Salary, Bernard Holtman, 6 mos.....		120 00	.....
Disbursements, for sundry employment.....		1,184 82	.....
Disbursements for fish food.....		184 20	.....
Disbursements, gathering pike spawn.....		113 00	.....
Disbursements, distributing fish.....		196 07	.....
Disbursements, collecting wild trout.....		724 24	.....
Disbursements, collecting lake trout eggs.....		800 64	.....
Disbursements, building hatching house.....		9,005 59	.....
Disbursements for supplies for barn.....		199 96	.....
Disbursements for other permanent improve- ments .....		4,669 26	.....
Disbursements for general supplies.....		367 62	.....
Miscellaneous expenditures .....		302 56	.....
			\$19,785 46



*Report of Treasurer.*

Déc. 31.	Disbursements, distributing black bass.....	91 60
	Disbursements, hatching muskallonge.....	219 56
	Disbursements, distributing white bass.....	359 37
	Disbursements, planting lake trout eggs, 1896.....	50 00
	Disbursements, rep. & maintaining fish car.....	428 55
	Disbursements, for premiums on insurance of buildings and fish car.....	204 75
	Expenses, James Nevin, superintendent, 12 mos.....	432 72
	Commissioners' expenses, 12 mos.....	112 72
		\$31,259 94
	Expenses over appropriations for year.....	1,159 86
		\$30,100 08

## STATEMENT FOR 1898.

1898.	Dr.		
Jan. 1.	To annual appropriation.....		\$20,000 00
	Cr.		
Jan. 3.	By amount paid on December bills, 1897.....		\$1,159 86
Dec. 31.	By salary, James Nevin, superintendent, 12 mos.....	\$2,000 00	
	Salary, Arthur Sykes, clerk, 12 mos.....	840 00	
			\$2,840 00

## MADISON HATCHERY.

Salary, Valentine Maag, foreman, 12 mos.....	\$840 00	
Salary, Jas. Foy, 12 mos.....	600 00	
Salary, Oscar Hutchinson, 8 mos.....	280 00	
Disbursements for sundry employment.....	75 95	
Disbursements for fish food.....	965 53	
Disbursements, distributing fish.....	254 96	
Disbursements, propagation of pheasants.....	138 62	
Disbursements for permanent improvements.....	118 83	
Disbursements for supplies for barn.....	141 26	
Disbursements for general supplies.....	327 08	
Miscellaneous expenditures.....	125 75	
		\$3,867 98

## BAYFIELD HATCHERY.

Salary, Henry Sykes, foreman, 12 mos.....	\$960 00	
Salary, Irvine Moline, 12 mos.....	529 00	
Salary, Frank Suthers, 6 mos.....	360 00	
Salary, Bernard Holman, 9 mos.....	270 00	
Salary, A. M. Anderson, 2 mos.....	120 00	
Salary, Gunner Ashland, 5 mos.....	175 00	
Salary, P. H. Johnson, 4 mos.....	140 00	
Disbursements for sundry employment.....	320 46	
Disbursements for fish food.....	361 22	
Disbursements, distributing fish.....	315 99	
Disbursements, collecting pike spawn.....	211 54	
Disbursements, collecting lake trout ova.....	601 65	
Disbursements, collecting whitefish spawn.....	108 19	
Disbursements, building barn and ice-house.....	1,180 04	
Disbursements for other permanent improvements.....	1,183 74	
Telephone rent.....	49 00	
Disbursements for supplies for barn.....	224 67	
Disbursements for general supplies.....	294 60	
Miscellaneous expenditures.....	110 22	
		7,515 32

*Report of Superintendent.*

OSHKOSH STATION.		
Dec. 31.	Salary, J. Maag, officer in charge, 5 mos.....	\$345 00
	Disbursements, building hatching house.....	1,267 19
	Disbursements, collecting pike spawn.....	329 90
	Disbursements, distributing pike fry.....	74 80
	Rent of water .....	139 98
	Disbursements for supplies.....	47 06
	Miscellaneous expenditures .....	57 76
		\$2,261 69
	Water rent, Milwaukee, 3 mos .....	75 00
	Disbursements, distributing white bass.....	907 30
	Disbursements, distributing black bass.....	706 63
	Disbursements, rep. & maintaining fish car.....	108 97
	Disbursements for premiums on insurance of buildings and fish car.....	74 15
	Expenses, Jas. Nevin, superintendent, 12 mos...	368 27
	Commissioners' expenses, 12 mos.....	90 83
		\$19,976 00
	By balance on hand Dec. 31st.....	24 00
		\$20,000 00

## SUPERINTENDENT'S REPORT—1897.

*To the Commissioners of Fisheries:*

GENTLEMEN:—I give here following my annual report of the operations at the several hatcheries, of work performed in the different branches of fish culture, and the propagation of pheasants, under my supervision during the year 1897:

## THE DISTRIBUTION.

The following table shows the number of the different kinds of fish distributed during the year:

Brook trout .....	1,949,000
Rainbow trout .....	1,191,000
Whitefish .....	18,000,000
Lake trout fry .....	10,000,000
Lake trout, yearlings .....	10,000
Wall-eyed pike .....	23,300,000
White bass (full grown) .....	9,115
Black bass .....	4,500
Muskallonge .....	1,100,000
Total distribution .....	55,563,615



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*Report of Superintendent.*


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## MADISON HATCHERY.

We distributed from the Madison hatchery last spring 1,949,-000 brook trout and 1,191,000 rainbow trout fry. The fry was unusually strong and healthy, which is accounted for by the fact that the eggs were hatched in much colder water than formerly when the water was taken direct from the springs into the hatching house. The loss of fry in the hatchery was so slight that it is hardly worth mentioning.

During the spawning season just past, two million brook and brown trout ova were taken at this hatchery. These eggs are in first-class shape and have done well throughout the season. In 1896 the number of eggs taken was one million greater than this year. For the past three years there has been a decrease each year in the number of brook trout eggs taken at the Madison hatchery, as compared with each previous year. I am unable to fully account for this. I notice, however, that we obtain a smaller average of eggs from each fish than in previous years. During the past five years, the average number of eggs per female fish each year was as follows: 1893, 538; 1894, 568; 1895, 675; 1896, 344; 1897, 202. I also observe that when we come to take stock each year in December and January we find a large loss in our breeding fish, for which we cannot account. We endeavor to keep a record of all fish which die from various causes each year, and of the number of fish that we place in each pond; and when we come to count the fish the following year we note the loss, for which we cannot account.

The number of trout in the ponds at this hatchery is as follows:

Brook trout, various ages over one year old.....	21,680
Brook trout, last year's hatch (estimated) .....	40,000
Rainbow trout, various ages over one year old.....	17,770
Rainbow trout, last year's hatch (estimated).....	20,000
Brown trout, various ages over one year old.....	1,581
Brown trout, last year's hatch (estimated).....	5,000
Total trout on hand, Madison hatchery.....	106,031

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*Report of Superintendent.*


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An average of about 4,000 dead fish are taken from the ponds each year.

We are carrying over the largest number of young fish, last year's hatch, that we have ever carried over in one year, excepting 1891.

We have instituted a new system of keeping account of the fish in the ponds. We open an account with each pond, and keep a record of the number of fish put in and the number taken out. An account of the number of dead fish taken from each pond is also kept. In this way we will be able to tell accurately the loss of fish of all ages, and note in which ponds and at what ages the loss is the greatest.

#### BAYFIELD HATCHERY.

I stated in my last annual report that we had laid down 15,000,000 lake trout eggs in the Bayfield hatchery. These eggs did remarkably well and ten million fry were hatched and planted. I am gratified to be able to state that this large number of fish was, with two exceptions, planted in excellent condition.

We have at this hatchery, as the product of the fall and winter spawning season, 9,425,000 lake trout eggs, 508,000 brook trout eggs and 3,000,000 whitefish eggs. These eggs are all in prime condition.

In the ponds at this plant we have:

Brook trout, various ages over one year old.....	17,024
Brook and rainbow trout, hatch of '96.....	22,000
Rainbow trout, two years old, taken from Madison hatchery.....	3,000
Total number of trout on hand, Bayfield.....	42,024

As you have visited the Bayfield hatchery several times during the summer and fall, you are familiar with the many improvements which have been made there. The large permanent hatching house has been finished, and the barn and ice-house are about completed. The barn will cost about \$500. It is neat and attractive and harmonizes nicely in appearance with the other buildings. The ice-house is 40x25 feet. It will have a refriger-





INTERIOR OF BAYFIELD HATCHERY.



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*Report of Superintendent.*

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ating chamber for keeping frozen fish, which will be used as food for the fish in the ponds.

The freezing of herring for fish food has been very satisfactory and successful so far. They are natural food for fish; and I do not doubt but our trout will continue to do well on them. We are able to grind them in our feed cutting machines without any waste.

MILWAUKEE HATCHERY.

One hundred and ninety million wall-eyed pike ova were collected last spring during the spawning season. The egg of the pike are the most delicate with which we have to deal. It is seldom that the fish culturist succeeds in impregnating more than fifty per cent of the eggs he takes. We were very successful this year in securing the male fish with which to fertilize the eggs, and with our improved methods of hatching we should have had 100,000,000 fry to distribute. The eggs cleaned up in the very best form, and in due time the eye of the fish could be distinguished. At this stage they began to die in the jars, and thence forward continued to die off in such large numbers that we distributed only 23,300,000 pike fry. In my last report to you I recommended that a cheap building be put up at Oshkosh for the purpose of hatching pike eggs, as the waters at this point are naturally adapted to pike. I am well satisfied now that if we had built such a hatchery last spring we would have had over one hundred million wall-eyed pike fry to distribute. This is the first year and the first instance that we have ever had any pike eggs die in the hatching jars in the Milwaukee hatchery after the eye of the fish was discernable. In previous years the loss in eggs in all cases occurred before the egg had reached that stage in which you could notice the eye of the fish in the eggs. Such losses, I have always held, were due to the scarcity of male fish; or because the milt of the males, which were usually small, was not sufficiently virile to produce strong, healthy impregnation. This year we had an abundance of excellent male fish, and



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*Report of Superintendent.*

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the result, so far as fertilizing the eggs was concerned, was very satisfactory. Experiments made at the time the eggs were taken fully demonstrated this. In these experiments we held the eggs in the river from which the parent fish were taken for five days and had no loss in the eggs.

The loss of pike in the egg stage in Milwaukee I attribute to the low temperature of the water used in the hatchery during the time of incubation. Some two years since the Milwaukee water works began to take their supply of water from the new intake, and the temperature of the water which we now get for hatching is so low that the fish will not mature, but die in the egg. At no time while the eggs were in the jars did the temperature of the water in the hatchery go above 48 degrees F., which is the usual temperature of spring water in our state.

Twelve years ago I attempted to hatch pike eggs at the Madison hatchery in water which was drawn from one of the ponds at a temperature of 50, but the fish began to die in the egg, as they did at the Milwaukee hatchery last spring. At that time I fixed up a temporary place below the mill dam in Fourth lake, and transferred the eggs to this improvised hatchery, where I hatched them and thus saved the year's hatch.

On account of the close season in the state of Michigan, we did not collect any whitefish eggs on the west and north shores of Green Bay, where we have never failed to get a limited number heretofore.

December 7th, I went with a crew of four men to Long lake, Washburn county, to get inland-like whitefish eggs for the Milwaukee hatchery. We had twenty-seven gill nets and one pound net. In eighteen days fishing we caught only 560 fish, about 100 of which were females. The result of it all is we have no whitefish eggs in the hatchery this winter.

We have some 300,000 lake trout eggs in this hatchery which we collected at Waukegan, Ill. We did not attempt to collect lake trout eggs in Lake Michigan waters within the borders of Wisconsin, owing to the close season provided in our laws.

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*Report of Superintendent.*

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I have for several years recommended the abandonment of the Milwaukee hatchery, as we have never been able to get a sufficient number of whitefish eggs to warrant its maintenance. I would again make that recommendation at this time, as the limited number of whitefish eggs we are able to collect can be easily handled at the Bayfield hatchery.

WHITE BASS.

During the month of May we distributed 9,000 full grown white bass. These were, for the most part, planted in summer resort lakes convenient of access from railroads. We could have increased the total output considerably, but we had other work of distribution to attend to, and it was thought advisable to cut down expenses, so we discontinued the work.

BLACK BASS.

At the meeting of the board, September 10, you instructed me to make as large a distribution of black bass as possible from the sloughs along the Mississippi river; and accordingly men were detailed in the work of collecting this species. However, owing to the lateness of the season, and the prevalent high water, in part due to the heavy rains about that time, a large distribution was rendered impossible, as the fish could not be secured. Four thousand five hundred black bass were planted.

In accordance with your instructions, Mr. Frank W. Cheney, who has had extensive experience in the work of hatching muskallonge while in the employ of the New York fish commission, and is an expert in this branch of fish culture, was placed in charge of the work of collecting and hatching muskallonge ova. Lost lake, in Sawyer county, was selected as the best waters for this work. Mr. Cheney reports that 152 muskallonge were taken. Of this number twenty-nine were productive females, from which he took 2,040,000 eggs. The percentage of eggs hatched varied in different instances from 60 to 90 per cent. One million one hundred thousand fry were planted, as follows:

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*Report of Superintendent.*

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In Lost lake, Sawyer county, 200,000; in Lake DeNeavu, Fond du Lac county, 200,000; in Green lake, Green Lake county, 700,000. It was thought advisable to plant the fry in these waters in large numbers, in order that a thorough test might be given them to ascertain whether muskallonge could be introduced into those waters by planting fry.

#### FISH CAR.

Four hundred and twenty-seven dollars were paid out for repairs on the fish car, which was painted, varnished and furnished with new wheels throughout. The trucks were also overhauled and put in first-class condition. Barring accidents, it will not be necessary to make any additional expenditures for the car the ensuing year. Eighteen thousand-seven hundred and twenty-five miles were traveled by the "Badger," 12,134 miles less than last year. The difference in mileage in the two years is due to the large distribution of black bass made in 1896. Eight hundred and thirty-six meals were served at a cost of 14 cents each.

#### PROPAGATION OF PHEASANTS.

Pursuant to your instructions, sixteen dozen Chinese and English pheasant eggs were purchased of Mr. H. F. Bosworth, a breeder of pheasants at Hartford, Wis., at a cost of \$2.40 per dozen. The eggs were placed under domestic hens by Mr. Maag, who had charge of the work.

One hundred and thirty-seven chicks were hatched, which thrived and apparently did very well until three weeks old. At this age they began to die. An examination showed that they were infested with lice, contracted from the hens which hatched them. From this and various other causes they continued to die until the time of planting them arrived, when there were but seventeen birds left. Two of these were liberated on the grounds of the Madison hatchery, and the remaining fifteen birds were taken to Bayfield and released on the hatchery grounds at that point. The cost of this work was \$113, the greater part of which



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*Report of Superintendent.*

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was expended for coops and pens, which we have on hand for use this year. With the experience gained through last year's work we hope to have better luck with the pheasants this year.

Our expenditures of money during the past year have exceeded the appropriations for that period by \$1,159.86, which will leave us just that amount short for this year's work.

Last June I made an estimate of the cost of the work that we had laid out, and it was apparent to me at that time that we would be short of funds. I cut the wages of our regular men, including myself, to the amount of \$571 for seven months ending December 31st, hoping that we would be able to make both ends meet, but the cut was not sufficient.

#### THE PROPOSED HATCHING STATION AT OSHKOSH.

Last spring when I reported the loss of wall-eyed pike at the Milwaukee hatchery on account of the low temperature of water, I stated that it was useless to make any further effort to hatch pike at Milwaukee. A resolution was passed by your board instructing me to correspond with the officials at Oshkosh to see what could be done in the way of getting a site for a hatching station at that point, and to ascertain the cost of the necessary water for hatching purposes. I went to Oshkosh, met with the park board, and found that they were willing to give us the desired site in Lake park. I also entered into correspondence with the manager of the water works company. The water works do not belong to the city, but to a private company. I will lay before you the correspondence I have had with the city officials and the water works company.

During the ten or twelve years that we have collected pike eggs on the Wolf river we have never failed to collect from 150,000,000 to 200,000,000 eggs annually. In my opinion, there is no question but the water in Lake Winnebago is perfectly adapted to the hatching of pike eggs; and I believe I can safely assure you that the output of pike fry will not be less than 100,000,00 per year if you transfer the Milwaukee plant to Oshkosh.

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*Report of Superintendent.*


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If you see fit to use the station at Oshkosh for hatching lake trout or whitefish, they can be hatched as well at Oshkosh as at Milwaukee. You will also be able to hatch several millions white bass fry each year, and if you desire at any time in the future to propagate black bass in ponds, the park board has signified its willingness to give us the use of the necessary grounds and to permit us to build ponds for that purpose. In this connection, I would say that those seasons that we have taken white bass from the mouth of the river at Oshkosh we have always found from twenty to seventy-five large black bass (small-mouthed species), full of spawn, in our nets each morning, affording an excellent opportunity to get breeding fish at little expense. These fish were coming on to the gravel beds to spawn.

JAS. NEVIN, Superintendent.

Madison, Wis., January 2d, 1898.

### SUPERINTENDENT'S REPORT—1898.

#### *To the Commissioners of Fisheries:*

GENTLEMEN:—It is with considerable pleasure and satisfaction that I submit to you my report of the work done under your direction, and the distribution of fish from the several hatcheries during the year 1898.

The species of fish and the number of each distributed from each hatchery was as follows:

#### MADISON HATCHERY.

Brook trout .....	1,574,000 .....	
Rainbow trout .....	1,155,000 .....	
Lake trout .....	150,000 .....	
		<hr/> 2,879,000

#### BAYFIELD HATCHERY.

Brook trout .....	328,500 .....	
Lake trout .....	7,362,000 .....	
Wall-eyed pike .....	11,380,000 .....	
Whitefish .....	3,000,000 .....	
		<hr/> 22,070,500

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*Report of Superintendent.*


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## OSHKOSH STATION.

Wall-eyed pike .....	42,600,000
Full-grown white bass from Wolf river and Lake Winnebago .....	23,420
Black bass .....	112,200
Total distribution, 1898 .....	67,685,120

## MADISON HATCHERY.

From the Madison hatchery we have distributed, as is shown in the above table, 1,574,000 of the brook and brown trout varieties, and 1,155,000 rainbow trout, also 150,000 lake trout.

The greater part of the rainbow trout were planted in the large streams or their tributaries in the north half of the state. Reports received from parties who planted the fish show that with hardly an exception both the brook and brown trout were planted in excellent condition. The loss of fry in the hatching troughs was small; at the same time the fry were not as strong and healthy as the fry planted last year from this hatchery. The fry placed in the rearing ponds have not done as well as last year.

The annual count of fish in the ponds at this hatchery shows the number of fish on hand to be:

Brook trout, one year old, hatch of '98, (estimated).....	15,000
Rainbow trout, one year old, hatch of '98, (estimated).....	10,000
Brook trout, two years old, hatch of '97.....	31,872
Rainbow trout, two years old, ('97).....	8,972
Brown trout, two years old, (estimated).....	4,500
Brook trout, various ages, three years old and over.....	22,518
Rainbow trout, three years old and over .....	15,589
Brown trout, three years old and over.....	1,199
Whole number of fish in ponds.....	109,650

A recount of the fish in some of the ponds has been made this fall, and we find there is an enormous loss in most of the ponds recounted. This loss is, for the most part, due to cannibalism, notwithstanding the care we have taken in sizing the fish, putting those of about the same size in the same ponds. Minks, turtles, snakes and fish hawks also destroy a large number of fish. We take all reasonable precautions to prevent these and



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*Report of Superintendent.*


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other losses which might occur, and I do not know of any way in which we could increase our vigilance in this matter. The following tables show in detail the losses in the ponds which have been recounted.

*Divisions One and Two of Raceway No. 2.*

These ponds contained brook and rainbow trout, hatch of "97," and were combined in counting.

No. of trout placed in the ponds .....	22,000
No. of dead fish removed during year.....	2,258 .....
No. of live fish taken out.....	13,847 .....
Loss, unaccounted for .....	6,795 .....
	<hr/> 22,900
Per cent. of unaccounted loss .....	.29

1,723 of the dead fish removed as per above table died during epidemic in those ponds during the month of March.

*"Ponds Nos. 12 and 13."*

These ponds contained brook trout three years old, and were counted together.

No. of trout placed in the ponds.....	19,618
No. of live fish taken from the ponds.....	12,923 .....
No. of dead fish removed from ponds during year.....	1,164 .....
Loss, unaccounted for .....	5,081 .....
	<hr/> 19,618
Per cent. of unaccounted loss.....	.26

During the month of May, two usually heavy rain storms occurred which, for the first time in the history of the establishment, overflowed the four ponds covered by the above tables. Although few indications were found that fish had escaped in this way, there can be no doubt that there was some loss on this account.

*"Third Division of Raceway No. 2."*

Rainbow trout, three years old.

No. of fish placed in the pond .....	3,050
No. of live fish taken out .....	2,964 .....
No. of dead fish removed during year.....	86 .....
	<hr/> 3,050

No unaccounted loss.

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*Report of Superintendent.*


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*Pond No. 6.*

This pond contained brook trout two years old (hatch of " '97").

No. of fish placed in the pond.....		2,729
No. of live fish taken out.....	2,529	.....
No. of dead fish removed during year.....	48	.....
Loss, unaccounted for .....	152	.....
		<hr/> 2,789
Per cent. of loss unaccounted.....		.05½

*Ponds Nos. 7 and 8.*

These ponds contained brook and brown trout three years old and over, and were combined in counting.

No. of fish placed in the ponds.....		5,379
No. of live fish removed in recounting .....	2,758	.....
No. of dead fish taken out during year.....	1,079	.....
Loss, unaccounted for .....	1,542	.....
		<hr/> 5,397
Per cent. of unaccounted loss.....		.28

A careful account of the dead fish taken from the ponds has been kept. In all 6,883 dead fish have been taken from the ponds during the year.

A considerable loss occurred among the " '97" hatch of brook trout at this hatchery during the month of April. This was at the time the snow was melting, but whether the snow had anything to do with it or not, I am unable to say. We have never before had a loss of this kind at that season of the year. One thousand, seven hundred and twenty fish died during the two weeks that the epidemic prevailed. We also had quite a loss of one-year old brook trout at the Bayfield hatchery. The cause of this loss was evidently the same as the cause of the loss at the Madison hatchery. It occurred at the time the snow water was coming down Birch Run freely. On account of the water keeping roily so long, an accurate account of the loss at Bayfield could not be kept. The loss will not be known until the fish in the ponds are counted again, and then only approximately.

Although the fry retained at the Madison hatchery has done

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*Report of the Superintendent.*


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well throughout the year, we will not have as many brook trout yearlings next spring as we had last.

During the spawning season just closed, 2,144,500 brook and brown trout eggs were taken. The number of unfertile eggs removed from the hatching trays has been very small up to date, and present conditions indicate a large percentage of hatch.

The average number of eggs taken from each female of the different ages was as follows:

Brook trout, hatch of "'97".....	339.
Brook trout, three years old.....	327.
Brook trout, four years old and over.....	815.

The general average of eggs taken from all ages was 378 per each female fish from which spawn was taken.

We found a large number of unproductive females in our stock of brook trout breeders at the Madison hatchery this fall. Of the whole number of brook trout females, four years old and over, 24 per cent. were barren; and of those three years old, 45 per cent. were barren. On this account we have not as large a number of brook trout eggs as we expected. I am unable to account for this unproductiveness. Correspondence with several other hatcheries does not reveal similar conditions elsewhere.

In handling our stock of fish from year to year, it is noticeable during the past few years that they do not attain to the size they formerly did, and they grow very slowly.

During the past two years many necessary repairs and improvements have been made at the Madison hatchery. The buildings have been repainted, sidewalks and ponds repaired, etc. Further repairs to the ponds and bulkheads will be necessary during the year.

#### PROPAGATION OF PHEASANTS.

I regret having to report another unsuccessful year in rearing Chinese and English pheasants, owing to several unfortunate circumstances, chief among which was the unfertility of the eggs. We purchased three hundred eggs, of which number one



*Report of the Superintendent.*

hundred thirty-eight birds were hatched, a part of which were dead when removed from the nests. An examination of the eggs which did not hatch showed that they had not been fertilized, or if fertilized had been improperly handled before being placed under the hens. From time to time dead birds were found in the coops, and in most cases no cause could be assigned for their death.

When the birds were about three weeks old they were transferred from the coops and small yards to a large pen, six rods square, which we constructed for them. The siding of this pen is of boards for the first three feet from the ground, on top of which six feet of woven wire fencing is placed, making the pen nine feet high. As the birds became older, on one or two occasions a stray bird was found on the outside of this pen, which with other circumstances satisfied us that we lost some birds which escaped through the wire meshes of the pen. Evidently the birds would fly (and they can fly very young) up against the screen, catch their feet on the wire and force themselves out through the meshes.

We have twenty-six birds left as the result of the season's hatch. These will be wintered over, and we hope to secure a part of the eggs for next year's hatch from them.

## BAYFIELD HATCHERY.

The distribution of fish fry from the Bayfield hatchery during the year was as follows:

Wall-eyed pike .....	11,380,000
Lake trout .....	7,362,000
Whitefish .....	3,000,000
Brook trout .....	328,500
Total distribution.....	22,070,500

The brook trout were distributed to streams along the C., St. P., M. & O. Ry from Bayfield to Eau Claire, and streams within distributing distance of that line of road in that section of the state.

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*Report of the Superintendent.*

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The pike were planted in various inland lakes in the northern part of the state and in Chequamegon Bay.

Five million lake trout were planted in Chequamegon Bay, and two million were planted in Lake Michigan and Green Bay off from established fishing points. Without an exception, the fish from this hatchery were reported planted in good condition, and without any loss whatever.

The feeding of an extensive stock of trout with beef liver is a large item of expense at most trout hatcheries. At the Bayfield hatchery liver will form but a very small part of the food for our stock of trout. Last season I conceived the idea of feeding lake herring to our trout. Fish is the natural food of fish, and we find that herring make an excellent food for trout. These fish can be bought cheap in the fall and kept frozen during the winter. In fact, we can feed herring to our trout from November to the following May. We have a refrigerator built and expect to have frozen fish all summer; and if we cannot keep the fish during the hot summer months, another food, in the form of suckers which run up the creek from Chequamegon Bay during the month of May, is at our disposal. These fish can be taken by the thousands and corralled in pens to be used as we need them during the summer months. Large meat cutters, run by water power, are used at both the Madison and Bayfield hatcheries to grind the food for the trout. These machines are so constructed that food can be made coarse or fine as desired for any age of fish. They readily cut the herring which we feed the trout.

Extensive improvements have been made at this hatchery during the year. These consisted mainly of grading and leveling the grounds, building ponds and laying three hundred feet of wooden pipe, two feet in diameter, to conduct the water to the new system of ponds which we have commenced to build. The details of arrangement and construction of additional ponds is needed, and for other improvements hav-

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*Report of the Superintendent.*

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been perfected, and plans for this purpose drawn; making a harmonious arrangement in every respect.

There will be twenty-five ponds in all. One large pond, which, when completed, will cover three acres of land and have six feet of water at its bulkhead, will be built. A series of twenty-three smaller ponds has been planned, three of which have been built. These ponds will be constructed to meet the requirements of the different ages of trout; and provision will be made for drawing all the water out of each of them as occasion may require for cleaning and scrubbing the ponds, or removing the fish they contain. The sides and bottoms of the ponds will be made of cobblestone, thus securing permanency, which cannot be obtained when ponds are built of wood. The water supply of each pond will be taken in at one end and discharged at the opposite end of the pond, thus giving a heavy current of water throughout the entire length of each pond. An excellent feature in the construction of the ponds lies in the provision made for drawing the water off from every individual pond without effecting the water supply of the others.

The Bayfield hatchery is very fortunate in its location. A large portion of the hatcheries established in the several states and the United States have been located, without due regard for the requirements of such an institution. In due time, such hatcheries usually out-grow their facilities, and it becomes necessary to transfer the work to some other point and perhaps with like results. But such is not the case at Bayfield. On the contrary, an abundance of land and water have been provided to meet the requirements of all time to come.

Bayfield is the fishing center of Lake Superior in Wisconsin. This fact gives the Bayfield hatchery an additional advantage which is, perhaps, not possessed in so great a degree by any other point on the great lakes. It being close to the fishing grounds enables the fish commission to send its



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*Report of the Superintendent.*

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agents out among the islands to the several fishing grounds and take the spawn, which is laid down on the trays in the hatchery on the evening of the day on which it is taken from the fish; thus insuring the hatching of a larger percentage of eggs than could be hatched if the eggs were kept on the fishing grounds several days before they could be sent to the hatchery. Good facilities for transporting with despatch the pike eggs collected at various points in the northern part of the state are also afforded.

The capacity of the hatchery is something enormous. The hatching room is 50 x 80 feet. At present only about two-thirds of this room is used for hatching fish. There are thirty hatching troughs with eighty-four trays in each trough, making, in all, two thousand five hundred-twenty trays in use. On these trays at the present time are laid eighty-four and one-half bushels lake trout eggs. The eggs of the lake trout will average eight thousand to the quart, or 256,000 to the bushel, giving a total of 21,632,000 lake trout eggs in the hatchery. There are also 1,050,000 brook trout eggs and 3,000,000 white fish eggs in process of hatching; making a grand total of 26,632,000 ova in the hatchery at the present time. We also expect to lay down from 25,000,000 to 50,000,000 wall-eyed pike ova in this hatchery in the spring. All the eggs in the hatchery are in prime condition at this writing. I believe it will be many years before the Bayfield hatchery will be duplicated in points of equipment and capacity for handling vast quantities of ova and fry.

From the time it was started, the hatchery has been in charge of Mr. Henry Sykes, a trusted employe, who has grown up in the business from boyhood; having been in the service of the fish-commission for sixteen years. He is thoroughly versed in the work of fish culture.

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*Report of the Superintendent.*

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## OSHKOSH STATION.

At the last annual meeting of the board, a committee was appointed to attend to the erection of a building to be used for hatching pike and other fish at Oshkosh. The committee advertised for bids and several were received. The contract was let to the lowest bidder. The building was completed in time to hatch the spring collection of pike eggs as intended.

I fully expected that we would hatch one hundred million pike fry at this station last spring, but fell considerably short of that number. We were greatly disappointed in the matter of securing the parent fish at Gill's Landing where we had all our apparatus for that purpose. We had set twice as many nets as we ever did before but notwithstanding this fact, we caught, altogether, only 1,583 fish as against 3,276 caught in 1897 and 3,238 in 1896. On account of low water, the fish spawned further down the river than usual, and did not reach the point where our nets were set. It is not probable that this will occur again in many seasons. However, under similar circumstances in the future, we will place another crew of men further down the river so as to make sure of getting a supply of fish. We collected at Gill's Landing some forty million pike eggs.

To guard against any possible fortuity which might occur to prevent us from getting a large supply of pike ova at Gills Landing last spring, I had previously sent a crew of men to "T" lake, Sawyer county, and had nets placed in those waters before the ice went out. At this point we secured a superior lot of fish and from them a large number of excellent eggs. Altogether we collected 110,000,000 pike ova, and distributed some 54,000,000 pike fry. This fry was generally planted in inland lakes, and with the exception of perhaps five or six shipments, in good condition.

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*Report of the Superintendent.*

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## WHITE BASS.

Acting on your suggestion, the C. & N. W. Ry. Co. and the C., M. & St. P. Ry. Co. fitted up baggage cars to transport full-grown white bass from Winneconne and Oshkosh to the summer resort lakes along their lines. These cars, together with the "Badger," were kept on the road constantly for three weeks or during the run of fish. There were planted 23,420 white bass.

The weather was cool during the entire time we were engaged in this work, and we were careful not to crowd the fish into the tanks. The fish carried much better than ever before.

There is no question in my mind but that this is a good work, and in a few years we will have this species of fish in most of our summer resort lakes, for which they are particularly suited. The waters in which they have been planted are, I believe, naturally adapted to them.

## BLACK BASS.

For several years we have collected small black bass from the sloughs and ponds along the Mississippi river for distribution to inland waters.

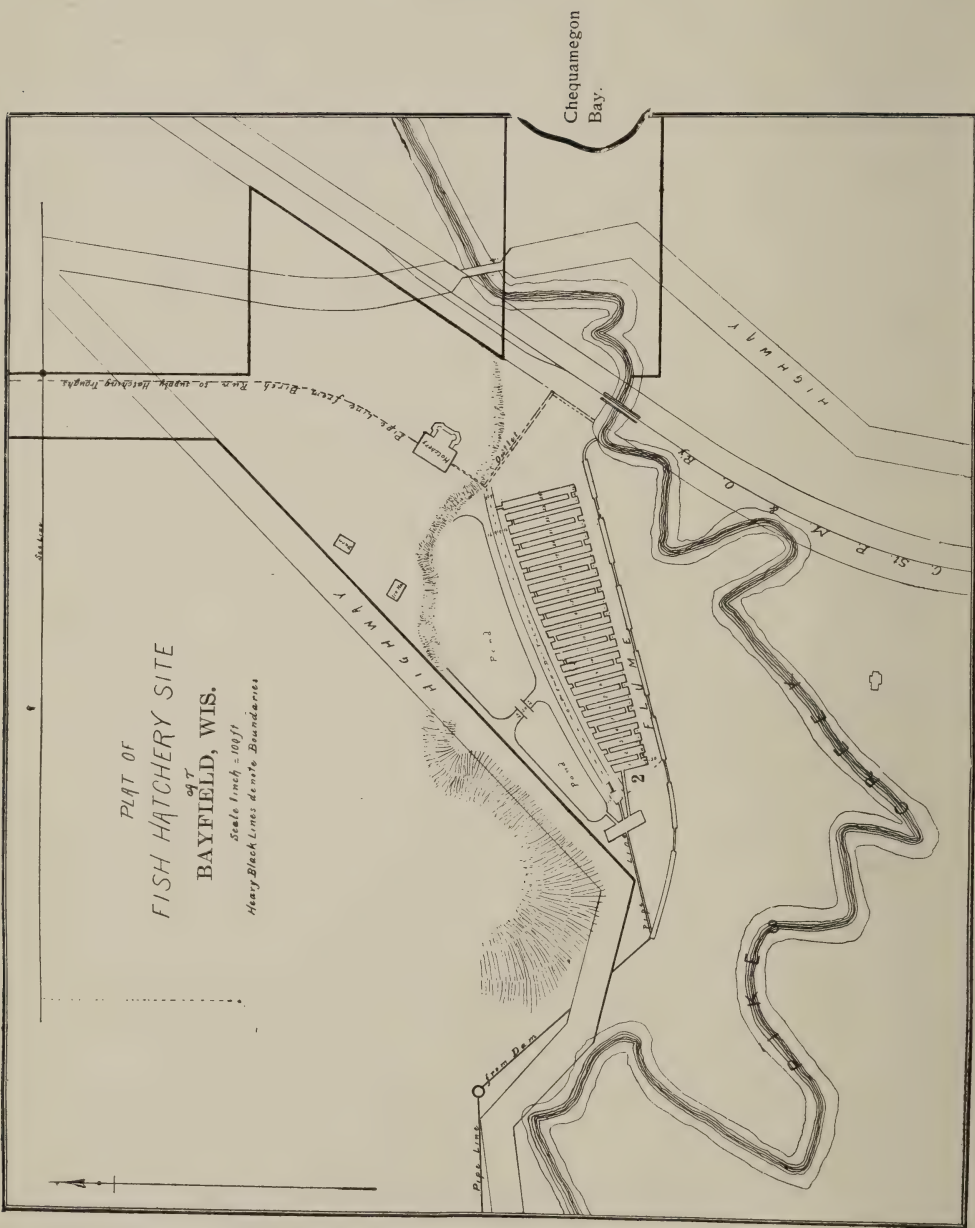
Last spring the water in the Mississippi river was very low until late in the season; and, as the bass were nearly done spawning before the water raised sufficiently for them to run up into the sloughs, there was not as many bass perished in those waters this year as in some years past. The work of rescuing the bass from the sloughs should be continued each year, notwithstanding it meets with objection from some people along the river. These people object to our taking the bass away from the sloughs and planting them in inland waters. They contend that they should be planted in the Mississippi river. They claim that we do not confine our-





PLAT OF  
FISH HATCHERY SITE  
OF  
BAYFIELD, WIS.

Scale 1 inch = 100 ft.  
Heavy Black Lines denote Boundaries.



1. Spawning Race.

2. Series of Ponds.

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*Report of the Superintendent.*

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selves to taking the fish from the sloughs, but intimate that we steal them from the river for other people's benefit, etc.

Last summer while we were doing this work at Prairie du Chien, a petition was circulated and a number of signatures secured, protesting against our taking the fish from the sloughs. As is usual in signing petitions, not a single signer on that petition took the trouble to try to verify the statements made in the petition or to ascertain whether they were true, which any of them could have done in two-hours time. The petition was presented to them, and in as much as it contained nothing inimical to their individual interests they signed it as a personal favor to the party who circulated it; and in some instances, perhaps, to get rid of him. If they had taken the trouble to investigate the matter, they would be ashamed to have it said that their names were on the petition.

The expense attached to the collection and distribution of bass from the sloughs is considerable. In the park at Oshkosh, where we already have a hatching station, there are two small lakes which can be used to good advantage for the propagation of bass; and I would recommend that steps be taken next spring to utilize the lakes for the purpose stated. The breeding bass can be collected at the mouth of the Fox river where it empties into Lake Winnebago at Oshkosh. I am satisfied that we can hatch and distribute more bass than we have in the past and do the work for less money than it costs us to take them from the Mississippi river sloughs. The lakes in the parks at Oshkosh are natural bass waters, and the city authorities are willing that we should use the ponds for the propagation of fish in any manner that we see fit.



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*Report of the Superintendent.*

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## OUTLYING WATERS.

The rewards of our efforts to stock our out-lying waters with whitefish have not been as great as we would like for reasons which are readily apparent, chief among which, the catching and marketing of small, immature fish. I need not tell you that thousands of under-sized whitefish have been caught each year in the past, particularly during the month of June, in small meshed pound nets and marketed. This instrument of destruction, illegally used, is largely responsible for the dearth of whitefish in our great lakes today. Some years since, I saw as high as 2,500 pounds of whitefish caught at the mouth of Big Sturgeon in a pound net at one lift in the month of November, and there were not fifty pounds of "No. 1" whitefish in the entire lot.

If all the small whitefish which have been caught and marketed during the past twelve years, contrary to law, had been left in the waters to mature, we might have been able to tell of the grand success of planting whitefish fry in the great lakes instead of having to admit that we have not received adequate returns on our investment in this great work.

What I have said of depleting our waters of whitefish by catching the young, immature fish is also true of lake trout, though the manner of taking the lake trout is different. During the last few years, the fishermen have found it profitable to set small meshed gill nets to catch chubs, bluefin and herring. With these small-meshed nets they have caught large quantities of undersized lake trout. This should not be permitted to continue if we are to keep the lake trout in our waters and on the market as a commercial fish for future generations.

I am pleased to be able to report an increase in the catch of whitefish this season over several previous years in both Lakes Superior and Michigan and Green Bay.

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*Report of the Superintendent.*

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## CLOSE SEASON.

The close season law greatly interferes with the collection of spawn on Lake Michigan, and prevents the collection of as large a number of eggs as would otherwise be possible for the hatcheries. It is a serious drawback in our work and does not achieve the purpose for which it was enacted; for, granted that it protects the large fish for the time being, the eggs which are deposited by the spawning fish are practically wasted. I contend that not one egg in a million deposited by the whitefish, lake trout or pike in the unaided natural way is fertilized; and even if a greater number were fertilized, the suckers, lawyers and other coarse fish which follow the lake trout and whitefish upon their beds would and do devour them, excepting such as may fall into inaccessible cracks and crevices in the rocks and among the stones.

Last fall I watched at various times the spawning beds of brook trout upon which from twenty-five to thirty trout could be seen at one time. I had a position within ten feet of the spawning bed, and watched them several hours each day for a week. During this time I did not see a single instance of spawning in which I thought it possible for a male trout to fertilize a single egg deposited by the females. I afterwards examined the beds, but found only one egg in all the time I spent in this work. I concluded that the trout devoured the eggs as soon as deposited. To satisfy myself on this point, I took with me a quantity of eggs from the hatchery. On arriving at the beds I waded into the stream, and with a small scap net placed the eggs on the nests about as I thought they would be placed by the parent fish naturally. I had hardly reached the bank of the stream again before the fish were back on the beds. They at once discovered the eggs which I had laid upon the nests, and like a pack of hungry wolves set to work to devour them. With their noses in the sand and tails out of water they turned over every stone and grave' "

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*Report of the Superintendent.*

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energetic search of the eggs; and in less than twenty minutes there was not an egg on the beds.

Whitefish will devour their eggs in like manner. In fact all species will eat the ova of their own kind as well as that of all other species.

It is the mission of the fish culturist to save a portion of the infinite mass of fish ova wasted by the means I have outlined, to fertilize the ova thus saved, and eventually plant in the waters the vast number of fish represented by the eggs saved, thus maintaining the supply of food fish in our waters.

To many people, hand propagation of fish is a species of sacrilege. It is an impeachment of nature and her provisions for the survival of the genus fish. Not so. Nature's provisions for the survival of the fish families were adequate until man entered upon their destruction with improved fishing apparatus, and wastefully and extravagantly pursued his work of devastation until now many species are wellnigh extinct. It is due to man's folly that our waters are barren, and it is left for him to again make them productive. Nature has provided the means. He has only to exercise in this case those qualities of forbearance and wisdom by which he has accomplished many great and wonderful things in the past.

I hold that there is but one way of increasing the supply of food fish in the great lakes under present conditions, i. e., by planting large numbers of lake trout and wall-eyed pike fry from the state hatcheries, and preventing the catching and marketing of small, immature fish. A close season, by stepping between the fish culturist and the parent fish during the spawning season, prevents the saving of millions of fish ova and the planting of millions of fish fry back into the waters.

It is desirable that uniform legislation for the protection of the commercial fish of the great lakes be enacted by the legislatures of the several states bordering upon those waters. Steps looking to this end have already been taken, and if



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*Report of the Superintendent.*

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they end in securing good laws and those laws are well enforced throughout the entire great lake waters, the result must be beneficial and will be generally productive of good results to the fishing industry. The key to such legislation should be to prohibit the catching and marketing of small immature fish.

## CONCLUSION.

Appended hereto are tabular statements showing in detail the distribution of fish during the biennial period, 1897 and 1898.

Pursuant to the provisions of section 7, chapter 222, laws of 1897, two barrels of whitefish (one hundred ninety fish) which were injured while taking spawn at Long Lake, Washburn county, in the fall of 1897, were delivered to Robert Miller, Supt. Barron county poor farm, Barron, Wis., for use at that institution. This is the only case in which it was found necessary to dispose of fish under the provisions of this section during the two years covered by this report.

In all departments of work I have endeavored to keep down expenses as much as possible; and I believe that every article purchased was absolutely necessary to the proper performance of the work in which it was used.

The enforcement of the fish and game laws is not connected with the fish commission's work. It has, however, a direct bearing upon it and the commission has at all times manifested a lively interest in this branch of fish propagation. Credit is due to Hon. Jas. T. Ellarson, state fish and game warden, and his deputies for the efficient service they have rendered the state in carefully and closely attending to the duties imposed upon them by law. The increased catch of whitefish in Lakes Superior and Michigan and Green Bay I attribute very largely to their activity in preventing the marketing of small immature fish.

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*Report of the Superintendent.*

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On the whole, the work of the board is in excellent form, and I believe the commission is in better position to fulfill the mission for which it was organized than at any other time in its history.

I gratefully acknowledge the kind consideration accorded me at all times by the several members of the board. I shall zealously endeavor to merit a continuance of your confidence, and to that end I pledge my best efforts to the work entrusted to me.

JAS. NEVIN,  
Superintendent.

Madison, Wis., January 2, 1899.

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1897.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>ADAMS COUNTY—</b>		
R. Thuel, Necedah.....	Big Roch-a-cris Creek .....	3,500
S. W. Pierce, Necedah.....	Witters Creek .....	3,500
	Risk Creek .....	3,500
		10,500
<b>ASHLAND County—</b>		
C. A. Lamoreaux, Ashland.....	Brunsweller Creek .....	7,000
	Trout Brook .....	7,000
	Spring Creek .....	7,000
	Butternut Creek .....	14,000
		35,000
<b>BARRON COUNTY—</b>		
F. E. Bailey, Rice Lake.....	Cob Creek .....	3,500
A. A. Gabriel, Rice Lake .....	Rock Creek .....	3,500
Mark Eubanks, Rice Lake.....	Pekegema Creek .....	3,500
N. W. Heintz, Rice Lake .....	Silver Creek .....	3,500
W. H. Brandt, Barron.....	Red-eye Creek .....	3,500
DeWitt Post, Barron.....	Hay River .....	3,500
T. W. Borum, Barron.....	Pine Creek .....	7,000
John Post, Barron.....	Miller's Creek .....	3,500
J. A. Anderson, Dallas.....	Miller's Creek .....	3,500
D. A. Russen, Dallas.....	South Sioux Creek .....	3,500
E. A. Pelton, Dallas.....	Doe Creek .....	3,500
W. S. Foster, Dallas.....	North Pine Creek .....	3,500
		45,500
<b>BUFFALO COUNTY—</b>		
Ed. Ford, Mondovi.....	Hoyt Creek .....	3,500
Jas. T. Bronlee, Mondovi.....	Hunter Creek .....	3,500
Ed. Turner, Gilmanton.....	Turner Creek .....	3,500
Henry Davis, Gilmanton .....	Davis Creek .....	3,500
Myron Amidon, Mondovi.....	Bennett Valley Creek.....	7,000
H. M. Nogle, Mondovi.....	Fifteen Mile Creek.....	7,000
Jos. Pabst, Mondovi.....	Dutch Creek .....	7,000
		35,000
<b>CHIPPEWA COUNTY—</b>		
F. L. Stevens, Chippewa Falls.....	Little Beaver Creek.....	7,000
L. Vincent, Chippewa Falls.....	Murphy Creek .....	3,500
O. C. Detloff, Chippewa Falls.....	Duncan Creek .....	3,500
Thad. C. Pound, Chippewa Falls.....	Chippewa Spring Brook.....	7,000
L. Hattimer, Bloomer.....	West Fork, O'Neil Creek.....	7,000
E. H. Rodgers, Bloomer .....	Martin Creek .....	3,500
	Gunn Creek .....	3,500
		35,000
<b>CLARK COUNTY—</b>		
F. P. Kipp, Lindsey .....	Little Black Creek .....	3,500
G. R. Klopff, Neillsville.....	Visno Creek .....	3,500
Chas. Servanty, Neillsville.....	Wedges Creek .....	3,500
Ed. Crosset, Neillsville .....	Hay Creek Branch .....	3,500
		14,000
<b>CRAWFORD COUNTY—</b>		
Chas. Enke, Prairie du Chien.....	Grand Grey Creek .....	7,000
J. A. Dworak, Wauzeka.....	Plum Creek .....	3,500
Aug. Kesler, Wauzeka.....	Grand Grey Creek.....	3,500
C. W. Lathrup, Barnum.....	Shaw Branch .....	3,500
	Myres Branch .....	3,500
J. A. Hays, Gays Mills.....	Bacon Creek .....	3,500
	Copper Creek .....	3,500
	Wells Creek .....	3,500

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>CRAWFORD COUNTY—Continued. †</b>		
D. R. Lawrence, Petersburg.....	Cow Creek .....	3,500
W. S. Manning, Soldiers' Grove.....	Johnson Creek .....	7,000
	Trout Creek .....	3,500
J. O. Davidson, Soldiers' Grove.....	Soldiers' Grove Creek.....	7,000
	Knapp's Creek .....	3,500
T. Garrity, Soldiers' Grove.....	Bear Creek .....	7,000
M. Hendrickson, Soldiers' Grove.....	Johnson Creek .....	7,000
		70,000
<b>DANE COUNTY—</b>		
O. E. Stamm, New Glarus .....	Branch of Sugar River.....	3,500
W. C. B. Weltzen, Primrose.....	Branch of Sugar River.....	3,500
J. E. Stanford, Black Earth.....	Reeve's Creek .....	7,000
H. H. Willard, Mazomanie.....	Boyle Creek .....	7,000
Jas. Schaffer, Mazomanie.....	Porter's Creek .....	7,000
T. J. Hughes, Black Earth.....	Olmer's Creek .....	7,000
Geo. Thatcher, Black Earth.....	Erby Creek .....	3,500
D. D. Logan, Black Earth.....	Mann Creek .....	3,500
		42,000
<b>DOUGLAS COUNTY—</b>		
Antoine Gordon, Gordon.....	Ox Creek .....	7,000
<b>DUNN COUNTY—</b>		
W. H. Bailey, Menomonie.....	Irving Creek .....	3,500
John Steele, Menomonie .....	Wilson Creek .....	3,500
E. J. Newsome, Menomonie.....	Brush Creek .....	3,500
Ole Berg, Menomonie.....	Loving Creek .....	3,500
J. H. Stout, Menomonie.....	Little Elk Creek .....	7,000
		21,000
<b>EAU CLAIRE COUNTY—</b>		
J. T. Joyce, Eau Claire.....	Nine Mile Creek.....	3,500
	Elk Creek .....	3,500
B. S. Phillips, Eau Claire.....	Rock Creek .....	3,500
	Coon Creek .....	3,500
A. A. Cutter, Eau Claire.....	Otter Creek .....	3,500
	Clear Creek .....	3,500
M. Cousins, Eau Claire.....	Lowe's Creek .....	3,500
	Beaver Creek .....	3,500
C. Volkman, Eau Claire.....	Coon Creek .....	7,000
Henry Russell, Augusta.....	Bridge Creek .....	7,000
		42,000
<b>FOND DU LAC COUNTY—</b>		
E. C. Reichmott, Ripon.....	White Creek .....	3,500
H. P. Cody, Ripon.....	Silver Creek .....	3,500
H. C. Eversz, Ripon.....	Snake Creek .....	3,500
L. B. Reed, Ripon.....	Roy Creek .....	3,500
T. S. Chittenden, Ripon.....	Dakin's Creek .....	3,500
E. J. Burnside, Ripon.....	Know's Creek .....	7,000
Chas. F. Geisse, Fond du Lac.....	Parson's Creek .....	3,500
	Camp Ground Creek.....	3,500
G. H. Miller, Fond du Lac.....	E. Br'ch of Fond du Lac Riv.	7,000
S. B. Amory, Fond du Lac.....	Head, Sheboygan River.....	7,000
M. J. McCullough, Campbellsport...	Virgin Creek .....	3,500
	Haskin's Creek .....	3,500
H. Durand, Fond du Lac.....	Byron Creek .....	3,500
	Empire Creek .....	3,500
J. J. Gromme, Fond du Lac.....	Gill's Branch .....	7,000
G. Van de Grinten, New Cassel.....	Haskin Creek .....	3,500
Wm. Wedde, Campbellsport.....	Hahn's Creek .....	3,500
Robt. Denz, Elmore.....	Elmore Stream .....	3,500
Wm. Klumb, Elmore.....	Elmore Creek .....	3,500
		80,500



*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>GRANT COUNTY—</b>		
J. Fawcett, Platteville.....	Block House Branch.....	7,000
W. S. Peters, Muscoda.....	Lucas Branch .....	3,500
H. Pheister, Muscoda.....	Gault Branch .....	3,500
J. P. Esch, Muscoda.....	Sand Branch .....	3,500
M. G. Myer, Muscoda.....	Big Spring Branch.....	3,500
F. G. Hasler, Muscoda.....	Cody Spring .....	3,500
H. Ellingson, Boscobel.....	Seeley Branch .....	10,500
F. W. Schmitt, Boscobel.....	Chitwood Branch .....	10,500
J. B. Johnson, Montfort.....	Blue River .....	7,000
O. P. David, Montfort.....	Grant River .....	7,000
R. Johnson, Castle Rock.....	West Brch., Blue River.....	7,000
O. Thomas, Montfort.....	Dark Hollow Creek.....	3,500
	Badger Hollow Creek.....	3,500
D. O. Eustice, Livingstone.....	Head of Platte River.....	3,500
J. J. Scanlan, Fennimore.....	Trainor's Creek .....	3,500
	Faith's Creek .....	3,500
J. W. Beetham, Fennimore.....	Fennimore Branch .....	3,500
	Johnson Branch .....	3,500
F. N. Kern, Fennimore.....	Johnson Branch .....	3,500
	Fennimore Branch .....	3,500
W. D. Burr, Lancaster.....	William's Branch .....	3,500
J. A. McPherson, Ellenboro.....	McPherson Branch .....	3,500
Chas. Henry, Ellenboro.....	Willow Branch .....	3,500
Fred Orton, Lancaster.....	Milner Branch .....	3,500
	McKenzie Branch .....	3,500
A. J. Howell, Lancaster.....	Day Branch .....	3,500
Geo. H. Baxter, Lancaster.....	Borah Branch .....	3,500
	Walker Branch .....	3,500
S. E. Hassell, Lancaster.....	Austin Branch .....	7,000
		136,500
<b>GREEN COUNTY—</b>		
S. D. Fisher, Brodhead.....	Branch of Sugar River.....	7,000
<b>IOWA COUNTY—</b>		
J. Bearsley, Mineral Point.....	Fitzsimmons' Creek .....	3,500
P. Hewitt, Mineral Point.....	Hewitt Branch .....	3,500
N. T. Martin, Mineral Point.....	Rock Branch .....	3,500
David Brown, Mineral Point.....	Brown's Branch .....	3,500
Jas. Wearne, Mineral Point.....	Dodge Branch .....	3,500
C. Wieren, Mineral Point.....	Fitzsimmons' Creek .....	3,500
Josephus Bailey, Cobb.....	Head-waters, Blue River.....	7,000
J. W. Starry, Barneveld.....	Harris Creek .....	3,500
	Walnut Hollow Creek.....	3,500
	Jones Creek .....	3,500
J. D. Reese, Barneveld.....	Jones Valley Creek.....	3,500
Thos. Thomas, Dodgeville.....	Head, Pecatonica River.....	7,000
S. W. Reese, Dodgeville.....	Ox Hollow Creek.....	3,500
S. W. Reese, Dodgeville.....	Angore Creek .....	3,500
	Harker Creek .....	3,500
	Blanchard Creek .....	3,500
Fred Jewell, Dodgeville.....	Head-waters, Pecatonica .....	7,000
		70,000
<b>JACKSON COUNTY—</b>		
J. B. Miller, Alma Center.....	Arnd Creek .....	3,500
	Hall's Creek .....	3,500
R. D. Squires, Black River Falls.....	Squaw Creek .....	7,000
H. J. Ormsby, Black River Falls.....	Snow Creek .....	3,500
	Allen Creek .....	3,500
W. F. Gearing, Melrose.....	Douglas Creek and Tribs.....	7,000
David Barclay, Black River Falls....	Hoffman Creek .....	7,000
Nicholas Gruber, Black River Falls..	Van Hersett Creek.....	3,500
	Town Creek .....	3,500
		42,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>JEFFERSON COUNTY—</b>		
C. C. Cashi, Palmyra.....	Scuppernong Creek .....	3,500
E. R. Trippe, Palmyra.....	Minnehaha Creek .....	3,500
L. A. Washburne, Palmyra.....	Palmyra Springs Creek.....	3,500
	Aurelin Spring Creek.....	3,500
		14,000
<b>JUNEAU COUNTY—</b>		
J. Nasbit, Wonewoc.....	Big Spring Creek .....	3,500
Henry Grimshaw, Elroy.....	Garwin Creek .....	3,500
	Boynton Creek .....	3,500
C. E. Wolfenden, Wonewoc.....	Crossman Creek .....	3,500
	Wolfenden Creek .....	3,500
J. E. Daly, Necedah.....	Johnson's Creek .....	3,500
	Wris Creek .....	3,500
F. A. Reed, Necedah.....	Schoonover Creek .....	3,500
	Spring Creek .....	3,500
		31,500
<b>LA CROSSE COUNTY—</b>		
O. Evenson, West Salem.....	Halfway Creek .....	3,500
John Trehoff, La Crosse.....	Mormon Cooley Creek.....	3,500
J. R. Jenkins, Rockland.....	Big Creek .....	3,500
James Hammon, La Crosse.....	Chippmunk Cooley Creek .....	3,500
M. Tourtellotte, La Crosse.....	Auretz's Creek .....	3,500
	Kernz's Creek .....	3,500
Henry Heil, La Crosse.....	Smith's Creek .....	3,500
Buttles and Pierce, Onalaska.....	Spring Cooley Creek .....	3,500
	Jostad Creek .....	3,500
F. C. Herrington, La Crosse.....	Clear Creek .....	7,000
	Mill Creek .....	7,000
	Halfway Creek .....	7,000
Jas. McCord, La Crosse.....	Kralle Creek .....	7,000
A. Hirschheimer, La Crosse.....	N. Branch of Coon Creek.....	3,500
	Ahrens Creek .....	3,500
Benedict Ott, La Crosse.....	Mormon Cooley Creek .....	7,000
Chas. Barber, Onalaska.....	Halfway Creek .....	3,500
Alex. Johnson, West Salem.....	McEldowney Creek .....	3,500
	Martin's Creek .....	3,500
	Jones' Creek .....	3,500
	Larson's Creek .....	3,500
	Gill's Cooley .....	3,500
	Barr Mill's Creek .....	3,500
John Markl, La Crosse.....	Mormon Cooley Creek .....	7,000
Jas. J. Hogan, La Crosse.....	Fishback Creek .....	7,000
	Tauschi Creek .....	7,000
John Erickson, Rockland.....	Fish Creek .....	3,500
		122,500
<b>LA FAYETTE COUNTY—</b>		
Michael Derrick, Fayette.....	Finley's Branch .....	3,500
E. T. W. Barnes, Darlington.....	Whiteside Branch .....	3,500
	Johnny Creek .....	3,500
F. E. Bordner, Darlington.....	Otter Creek .....	3,500
L. A. Sandefur, Darlington.....	Russell's Branch .....	3,500
Wm. A. Garden, Belmont.....	Burris' Branch .....	3,500
	Bewey Branch .....	3,500
		24,500
<b>LINCOLN COUNTY—</b>		
J. P. Hughes, Tomahawk.....	Pine Creek .....	3,500
H. A. Atcherson, Tomahawk.....	Squaw Creek .....	7,000
H. C. Hetzel, Merrill.....	N. Branch, Pine River.....	7,000
F. B. Gallagher, Merrill.....	Hay Meadow Creek .....	7,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>LINCOLN COUNTY—Continued.</b>		
Julius Thielman, Merrill.....	North Brch., Prairie River...	7,000
Alex. F. Empey, Merrill.....	Barn's Creek .....	7,000
J. H. Froehlich, Tomahawk.....	Spring Creek .....	7,000
R. C. Thielman, Tomahawk.....	Rocky Run .....	7,000
Fitzgerald Bros., Tomahawk.....	N. Brch., Little Rice Riv....	7,000
		56,000
<b>MARATHON COUNTY—</b>		
Frank Kelley, Wausau.....	Kickbusch Creek .....	3,500
S. E. Dickenson, Wausau.....	Little Creek .....	3,500
Neal Brown, Wausau.....	Plover River .....	14,000
F. W. Burt, Wausau.....	Eau Claire River.....	14,000
F. P. Corwith, Wausau.....	Jim Moore Creek .....	7,000
O. E. O'Dell, Wausau.....	Little Rib River .....	14,000
John Creary, Wausau.....	Big Rib River .....	14,000
B. N. Thomas, Wausau.....	Bull Junior Creek .....	7,000
J. T. Winkley, Wausau.....	Bear Creek .....	7,000
R. W. Pinder, Wausau.....	Spring Creek .....	3,500
		87,500
<b>MARINETTE COUNTY—</b>		
W. A. Brown, Marinette.....	Big Cold Spring Creek.....	7,000
	Outlet to Frying Pan Lake...	7,000
G. W. Taylor, Marinette.....	Outlet to Mountain Lake....	14,000
	Water Cress Creek .....	7,000
		35,000
<b>MARQUETTE COUNTY—</b>		
John Hays, Oxford.....	Jones' Creek .....	3,500
	Reed Creek .....	3,500
J. H. Coon, Oxford.....	Campbell Creek .....	7,000
C. E. Pond, Westfield.....	Shatzke Creek .....	7,000
C. W. Daye, Liberty Bluff.....	Chaffee Creek .....	3,500
Wm. Guderjahn, Liberty Bluff.....	Wood Creek .....	3,500
M. W. Phillips, Westfield.....	Head-waters, Montello River.	7,000
Meinke & Behn, Westfield.....	Duck Creek .....	3,500
	Pine Creek .....	3,500
		42,000
<b>MONROE COUNTY—</b>		
North Vice, Cataract.....	Big Creek .....	7,000
D. C. Hope, Sparta.....	Silver Creek .....	7,000
E. W. Crane, Sparta.....	Big Creek .....	7,000
C. E. Simpson, Sparta.....	Head-waters, La Crosse Riv.	7,000
John A. Sholts, Sparta.....	Swamp Creek .....	7,000
F. J. French, Sparta.....	Kemp Brook .....	7,000
Louis T. Hill, Sparta.....	Shattuck Creek .....	3,500
	Soper Creek .....	3,500
Ira A. Hill, Sparta.....	Ayers' Creek .....	3,500
	Sargent Creek .....	3,500
F. L. Shaller, Sparta.....	Snyder's Creek .....	3,500
	Castle Rock Creek.....	3,500
C. W. Hins, Sparta.....	Tar Creek .....	3,500
	Squaw Creek .....	3,500
Isaac Jensen, Cashton.....	Upper Coon Creek.....	3,500
Homer Lombard, Cashton.....	Little La Crosse Creek.....	3,500
Henry Oswald, Leon.....	Pleasant Valley Creek.....	7,000
C. Bakkon, Cashton.....	Brush Creek .....	3,500
Chas. Todd, Wilton.....	Tramur's Creek .....	3,500
	Staten Creek .....	3,500

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION. 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>MONROE COUNTY—Continued.</b>		
Saml. Sloggy, Norwalk.....	Cook Creek .....	3,500
	Brush Creek .....	3,500
	Billings' Creek .....	3,500
	Moore's Creek .....	3,500
H. C. McGeary, Norwalk.....	Moore's Creek .....	3,500
W. H. Schultz, Tomab.....	Sparta Creek .....	7,000
	Alton Creek .....	7,000
	Vandervoort Creek .....	3,500
	Black's Creek .....	3,500
	Deer Creek .....	3,500
	Flora Creek .....	3,500
		140,000
<b>OCONTO COUNTY—</b>		
Chas. Hall, Oconto.....	Little River .....	10,500
	South Branch .....	7,000
		17,500
<b>ONEIDA COUNTY—</b>		
C. C. Yawkey, Hazlehurst.....	Kitty Creek .....	7,000
<b>PIERCE COUNTY—</b>		
D. C. Munger, Maiden Rock.....	Rush River .....	7,000
M. D. Cassiday, Maiden Rock.....	Rush River .....	7,000
J. B. Carson, Brasington.....	Spring Creek .....	7,000
J. W. Losey, La Crosse.....	Rush River .....	7,000
		28,000
<b>POLK COUNTY—</b>		
Frank Fiske, Turtle Lake.....	Spring Brook .....	7,000
<b>PORTAGE COUNTY—</b>		
J. C. Frost, Stevens Point.....	Gardner's Creek .....	7,000
Aug. Walkush, Cassimere.....	Hay Meadow Creek .....	7,000
Thom. Lehman, Rosholt.....	S. Branch, Little Wolf.....	7,000
Carl. O. Doxrud, Nelsonville.....	Waupaca River .....	7,000
J. T. Moore, Nelsonville.....	Trib. Waupaca River .....	7,000
John M. Higgins, Custer.....	Seitzer Brook .....	7,000
H. Simpler, Stevens Point.....	Little Plover River .....	7,000
		56,000
<b>PRICE COUNTY—</b>		
C. M. Durace, Phillips.....	Little Elk Creek.....	14,000
E. D. Sperry, Phillips.....	Big Elk Creek .....	14,000
C. S. Webster, Phillips.....	Trout Run .....	7,000
		35,000
<b>RICHLAND COUNTY—</b>		
C. G. Cole, Woodstock.....	Pugh's Branch .....	3,500
V. J. Stanck, Yuba.....	Pine River .....	7,000
H. W. Leaterbessy, Hub City.....	Myer's Creeks .....	7,000
E. L. Meeker, Woodstock.....	Fancy Creek .....	7,000
R. J. Washburn, Richland Center.....	Buck Creek .....	3,500
Owen Miller, Richland Center.....	John's Hollow Creek .....	3,500
A. J. Dickinson, Lone Rock.....	Callahan Branch .....	3,500
	Maxwell Branch .....	3,500
Chas. Rowley, Lone Rock.....	Carl Creek .....	3,500
M. D. Elliot, Lone Rock.....	Weitzel Creek .....	3,500
Jas. Nolan, Sextonville.....	Little Bear Creek .....	7,000
H. W. Haskell, Sr., Lone Rock.....	Martell Creek .....	3,500
	Hellenbeck Creek .....	3,500
N. L. Ewers, Mill Creek.....	Ewer's Branch .....	3,500
		63,000



*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>SAUK COUNTY—</b>		
F. M. McClure, Reedsburg.....	Branch of Narrow's Creek...	3,500
Frank Foss, Reedsburg.....	Beaver Creek .....	3,500
Henry Scherve, Reedsburg.....	Dell Creek .....	3,500
J. W. Davis, Baraboo.....	Big Spring Creek .....	3,500
Frank Herfort, Baraboo.....	Helm's Creek .....	3,500
C. C. Thompson, Baraboo.....	Branch, Dell Creek.....	3,500
J. E. English, Baraboo.....	Seeley Creek .....	3,500
G. E. Talbot, Lime Ridge.....	Narrow's Creek .....	3,500
L. E. Horst, Baraboo.....	Spring Creek .....	3,500
E. G. Marriott, Baraboo.....	Leach Creek .....	3,500
A. Beckwith, Dixon.....	Little Bear Creek.....	3,500
B. D. Sherwood, Spring Green.....	Wilson Creek .....	7,000
		45,500
<b>TREMPEALEAU COUNTY—</b>		
E. T. Clark, Galesville.....	Beaver Creek .....	3,500
	Dutch Creek .....	3,500
Chas. Sonnenberg, North Bend.....	Tributary of Beaver Creek..	7,000
F. G. Davis, Galesville.....	Mason's Creek .....	3,500
	French Creek .....	3,500
E. A. Miller, Hixton.....	N. Brch., Trempealeau River	3,500
	S. Brch., Trempealeau River	3,500
E. S. Hotchkiss, Independence.....	Travis Creek .....	3,500
	Borst Valley Creek.....	3,500
		35,000
<b>VERNON COUNTY—</b>		
H. J. Seaverson, Westby.....	Sea's Branch .....	3,500
Lars Tomting, Westby.....	Larson Creek .....	3,500
Olef Peterson, Westby.....	Timber Creek .....	3,500
Olef Noer, Westby.....	Baklien Creek .....	3,500
J. W. Groves, Madison.....	Brush Hollow Creek.....	10,500
	Elk Run .....	10,500
Albert Mockrud, Westby.....	Mortensen Creek .....	7,000
Frank S. Mott, Viroqua.....	South Bad-axe Creek.....	3,500
M. B. Davidson, Westby.....	Sveen's Creek .....	3,500
J. Henry Tate, Viroqua.....	Brookville Branch .....	3,500
C. D. Williams, Viroqua.....	Branch of Bad-axe.....	3,500
H. D. Williams, Viroqua.....	Hinkst Branch .....	3,500
F. M. Minshall, Viroqua.....	Bishop Branch .....	3,500
J. W. Mills, Viroqua.....	Esofea Brch. of Bad-axe.....	3,500
J. K. Schriener, Westby.....	Baigin Creek .....	3,500
E. J. Sveen, Westby.....	W. Brch. of West Kickapoo..	3,500
C. T. Shannon, Westby.....	Spring Creek .....	3,500
A. J. Johnson, Viroqua.....	Purdy Brch. of Bad-axe.....	3,500
		80,500
<b>VILAS COUNTY—</b>		
Williams Salsich Co., Star Lake.....	Lost Creek .....	7,000
	Donahue Creek .....	3,500
	Plum Creek .....	7,000
	Gleason Creek .....	3,500
	Johnson Creek .....	7,000
	Head of Manitowish River....	7,000
		35,000
<b>WALWORTH COUNTY—</b>		
T. D. Weeks, Whitewater.....	Bluff Stream .....	7,000
Chas. S. Weeks, Whitewater.....	Scanlan Creek .....	3,500
	Harris Stream .....	3,500
	Whitewater Lake Creek.....	3,500
H. M. Trippe, Whitewater.....	Lake Creek .....	3,500
	Territorial Brook .....	3,500
R. H. Johnson, Whitewater.....	Ward Brook .....	3,500
		28,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>WASHBURN COUNTY—</b>		
Wm. Busch, Spooner.....	Beaver Brook .....	14,000
<b>WASHINGTON COUNTY—</b>		
S. F. Mayer, West Bend.....	Elgman Creek .....	7,000
	Cedar Creek .....	7,000
H. B. Kaempfer, West Bend.....	Silver Creek .....	7,000
		21,000
<b>WAUKESHA COUNTY—</b>		
J. A. Lins, Eagle.....	Branch of Supernong Creek..	7,000
Wm. H. Tuohy, Eagle.....	Long's Creek .....	3,500
Henry M. Loibl, Eagle.....	Minnehaha Creek .....	3,500
		14,000
<b>WAUPACA COUNTY—</b>		
Geo. Jeffers, Sheridan.....	Peterson's Creek .....	3,500
Orr Decker, Waupaca.....	Dayton Creek .....	3,500
	Crystal River .....	3,500
John Jobson, Sheridan .....	Silver Creek .....	3,500
Robt. Gibbons, Sheridan.....	Howard Creek .....	3,500
H. N. Jeffers, Sheridan.....	Knudsen Creek .....	3,500
Oliver Olfson, Sheridan.....	Silver Creek .....	3,500
Sam. Torgerson, Sheridan.....	Headland Creek .....	3,500
Fred Johnson, Sheridan.....	Waupaca Creek .....	3,600
A. P. Andrews, Sheridan.....	Harris Creek .....	3,500
H. Olfson, Sheridan.....	Steadman Creek .....	3,500
C. E. Chamberlain, Waupaca.....	Rice Creek .....	7,000
Wm. Rutherford, Waupaca.....	Hunter Creek .....	7,000
F. M. Clark, Wild Rose.....	Willow Creek .....	7,000
		59,500
<b>WAUSHARA COUNTY—</b>		
Elmer Walker, Wautoma.....	Mecan River and Tribs.....	14,000
D. Hoxie, Wautoma.....	White River and Tribs.....	14,000
Wm. Berrie, Wautoma.....	Trib. to White River .....	14,000
W. L. Roberts, Wautoma.....	Mecan River .....	7,000
	Lunch Creek .....	7,000
W. A. Bugh, Wautoma.....	White River and Tribs.....	14,000
F. M. Smith, Coloma.....	Wedde Creek .....	3,500
Chas. Bassett, Coloma.....	Roch-a-cris Creek .....	3,500
Thos. Feane, Coloma.....	Willard Creek .....	3,500
John Shorey, Coloma Station.....	Wadey Creek .....	3,500
W. J. Johnson Coloma Station.....	Little Roch-a-cris Creek.....	3,500
W. A. Roblier, Coloma Station.....	Bassett Creek .....	3,500
J. S. Williams, Plainfield.....	Ten-mile Creek .....	7,000
Fred Heller, Richford.....	Mecan River, above dam.....	3,500
C. Rogers, Richford.....	N. Brch., Wadde Creek.....	3,500
W. H. Campfield, Hancock.....	Lunch Creek .....	3,500
L. W. Beach, Hancock.....	Little Roch-a-cris Creek.....	3,500
H. J. Hawkins, Coloma Station.....	Cowlen Creek .....	3,500
C. W. Lindsay, Hancock.....	King Creek .....	3,500
Wm. H. Harris, Richford.....	Mecan Creek .....	3,500
Matt. Westover, Pine River.....	Pine River .....	3,500
Wm. Stewart, Berlin.....	Willow Creek .....	7,000
John Fuller, Spring Lake.....	Maars Creek .....	3,500
Geo. H. Fuller, Spring Lake.....	Spring Brook .....	3,500
E. F. Kimball, Pine River.....	Reams Creek .....	3,500
Fred Dewey, Pine River.....	Panairsdale Creek .....	3,500
Louis Ryerson, Pine River.....	Silver Creek .....	3,500
G. H. Carpenter, Pine River.....	Oliner's Creek .....	3,500
J. F. Leach, Spring Lake.....	Maars Creek .....	3,500
		157,500
Total distribution for 1897.....		1,949,000

*Distribution of Fish.*

RAINBOW TROUT DISTRIBUTION, 1897.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>ASHLAND COUNTY—</b>		
Jos. Carl, Glidden.....	Carl's Creek .....	6,000
Henry Hayton, Glidden.....	Dryden Creek .....	6,000
Geo. Sell, Glidden.....	Magee Creek .....	6,000
Wm. G. Fordyle, Glidden.....	Weber Lake and Creek.....	6,000
		24,000
<b>BROWN COUNTY—</b>		
E. L. Tyrel, Green Bay.....	Trout Creek .....	3,000
	Beaver Dam Creek .....	3,000
	Cold Water Creek.....	3,000
Ben. Smith, Green Bay.....	Potter Creek .....	6,000
J. L. Wilcox, Green Bay.....	Whipple Brook .....	6,000
		21,000
<b>BAYFIELD COUNTY—</b>		
L. H. Lien, Mason.....	Marengo River .....	6,000
<b>BUFFALO COUNTY—</b>		
Allan Cowie, Arcadia.....	Fernholz Creek .....	6,000
L. P. Hunner, Alma.....	Little Waumandee .....	6,000
	Trout Creek .....	6,000
	Mill Creek .....	6,000
	Pine Creek .....	6,000
Erik Alme, Nelson.....	Bear Creek .....	3,000
	Centre Creek .....	3,000
Peter Mathys, Tell.....	Trout Creek .....	6,000
		42,000
<b>CALUMET COUNTY—</b>		
M. Bell, Marytown.....	Pine River .....	6,000
John Bruipel, Cedarburg.....	Sheboygan River .....	6,000
N. Mahlborg, Charlesburgh.....	Manitowoc River .....	6,000
Jos. Wolfinger, Dundas.....	Woodville Lake .....	12,000
		30,000
<b>CHIPPEWA COUNTY—</b>		
S. R. Kaiser, Cadott.....	Bentley Creek .....	3,000
	Turner Creek .....	3,000
		6,000
<b>CLARK COUNTY—</b>		
Chas. A. Vandusen, Thorpe.....	Marshall Creek .....	6,000
C. G. Stow, Loyal.....	Bear Creek .....	3,000
	Rock Creek .....	3,000
		12,000
<b>COLUMBIA COUNTY—</b>		
M. D. Olson, Rio.....	Cuff Creek .....	6,000
John Haysey, Columbus.....	John's Spring Brook.....	6,000
A. D. Bowman, Kilbourn City.....	Atcherson's Creek .....	3,000
	Cooning Creek .....	3,000
		18,000
<b>DANE COUNTY—</b>		
F. A. Schaffrit, Mt. Horeb.....	German Valley Creek.....	6,000

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>DUNN COUNTY—</b>		
G. N. Amble, Colfax.....	Broken Creek .....	6,000
John L. Berg, Colfax.....	Little Otter Creek .....	6,000
		12,000
<b>EAU CLAIRE COUNTY—</b>		
Henry Russell, Augusta.....	Bridge Creek .....	3,000
	Hay Creek .....	3,000
Chas. N. Hatredt, Eau Claire.....	Otter Creek .....	6,000
A. C. Larson, Eau Claire.....	Elk Creek .....	6,000
		18,000
<b>FOREST COUNTY—</b>		
John Kiernan, Armstrong Creek.....	Armstrong Creek .....	6,000
<b>GRANT COUNTY—</b>		
Jas. Alderson, Lancaster.....	Pigeon Creek .....	3,000
	Austin Branch .....	3,000
F. M. Cronin, Lancaster.....	Grant River .....	3,000
	Platte River .....	3,000
Thomas McDonald, Lancaster.....	Little Grant River.....	6,000
	Grant River .....	6,000
A. Schmitt, Lancaster.....	Pigeon Creek .....	3,000
	Bushnell Hollow Creek .....	3,000
O. P. David, Montfort.....	Grant Creek .....	6,000
A. Devoe, Boscobel.....	N. Branch of Ruland Creek..	6,000
E. C. Bryan, Boscobel.....	Richland Creek .....	3,000
	Pullen Branch .....	3,000
J. B. Nauert, Boscobel.....	Saunders's Creek .....	6,000
E. B. Smith, Boscobel.....	Knapp's Creek .....	6,000
Chas. McMillan, Boscobel.....	W. Branch of Coon Creek....	3,000
	Saunders's Creek .....	3,000
		66,000
<b>GREEN COUNTY—</b>		
H. C. Putnam, Brodhead.....	Sugar River .....	12,000
<b>IOWA COUNTY—</b>		
H. R. Carter, Jonesdale.....	Higgon's Creek .....	3,000
	Tobin Creek .....	3,000
Clarence Suthers, Mineral Pt.....	Rock Branch .....	6,000
		12,000
<b>IRON COUNTY—</b>		
G. W. Buck & Son, Manitowish.....	Lake Harris .....	6,000
D. C. Fifield, Gile .....	Island Lake .....	6,000
		12,000
<b>JACKSON COUNTY—</b>		
S. L. Brist, Shamrock.....	Robinson Creek .....	6,000
R. K. Frost, Millston.....	South Branch, Robinson Ck.	6,000
	Pigeon Creek .....	6,000
Fred Newell, Hixton.....	Mason's Creek .....	6,000
W. E. Abbott, Hixton.....	Carpenter's Creek .....	6,000
W. G. Stolts, Taylor.....	Iron Creek .....	3,000
	Pine Creek .....	3,000
Simon Knaggs, Hatfield.....	Nora Creek .....	6,000
F. Dudley, Alma Center.....	South Branch, Hall's Creek..	6,000
E. A. Miller, Hixton.....	N. and S. Branches, Trem- pealeau River .....	6,000
		54,000



*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>JUNEAU COUNTY—</b>		
M. Leffingwell, Mauston.....	E. Brch., Crossman Creek....	6,000
C. P. Babcock, Mauston.....	Brewer's Creek .....	6,000
Jas. Roach, Mauston.....	One-mile Creek .....	6,000
John Scanlan, Lyndon.....	Lawrence Creek .....	6,000
A. D. Gill, New Lisbon.....	Fountain Creek .....	6,000
	Macomber Creek .....	3,000
	Little Lemonweir Creek.....	3,000
		36,000
<b>LA CROSSE COUNTY—</b>		
Thos. Barclay, West Salem.....	Flemming's Creek .....	6,000
A. C. Hanson, Mindora.....	Flemming's Creek .....	6,000
		12,000
<b>LANGLADE COUNTY—</b>		
John Veidt, Summit Lake.....	Hunting River .....	6,000
<b>LINCOLN COUNTY—</b>		
G. A. Miller, Dudley .....	Prairie River .....	6,000
A. L. Miller, Dudley.....	Prairie River .....	6,000
		12,000
<b>MANITOWOC COUNTY—</b>		
Lorenz Dippold, Mosel.....	Dippold's Pond .....	6,000
Julius Linstedt, Manitowoc.....	Devil River .....	6,000
		12,000
<b>MARATHON COUNTY—</b>		
W. D. Connor, Stratford.....	Big Eau Pleine River.....	6,000
Lincoln Brett, Hatley.....	Plover River .....	3,000
C. L. Wyatt, Hatley.....	Plover River .....	3,000
F. E. Wheeler, Hatley.....	Plover River .....	3,000
		15,000
<b>MARINETTE COUNTY—</b>		
L. E. Katzenstein, Milwaukee.....	Little Eagle River.....	6,000
John Ahle, Wausaukee.....	Shepard Creek .....	9,000
C. H. Quirsloren, Pembine.....	North Brch., Pene-bon-won..	9,000
	South Brch., Pene-bon-won..	12,000
John Hoff, Wausaukee.....	Hoff's Creek .....	12,000
John Wood, Amberg.....	South Brch., Pike River.....	9,000
Wausaukee Club, Middle Inlet.....	Little Wausaukee River .....	12,000
	Rat River .....	9,000
John Donnelly, Athelstane.....	S. Brch. of Pike River.....	12,000
	Little S. Brch., Pike River..	15,000
Geo. W. Taylor, Marinette.....	Little Wausaukee River .....	12,000
	Big Wausaukee River.....	12,000
	S. Brch., Little Wausaukee..	9,000
		138,000
<b>MARQUETTE COUNTY—</b>		
Fred Pond, Westfield.....	Duck Creek and Mill Pond..	6,000
<b>OCONTO COUNTY—</b>		
W. H. Young, Oconto.....	Lindsey Brook and Tribs.....	12,000
Chas. Hall, Oconto.....	Little River .....	12,000
	South Branch River .....	13,000
		42,000

4 Fish.

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>NEIDA COUNTY—</b>		
E. S. Shepard, Rhinelander.....	Shepard's Brook .....	6,000
J. E. Wood & Co., Woodboro.....	Wood River .....	6,000
Clark & Lennon, Rhinelander.....	Spring Brook .....	6,000
Brown & Robbins Lbr. Co., Rhine- lander .....	Popple River .....	6,000
Paul Browne, Rhinelander.....	Moon River .....	6,000
		30,000
<b>PEPIN COUNTY—</b>		
Wm. H. Smith, Eau Galle.....	Big and Little Missouri Cks.	6,000
W. H. Huntington, Durand.....	Porcupine Creek .....	6,000
	Ward Creek .....	3,000
	Bear Creek .....	6,000
J. W. Losey, La Crosse.....	Lost Creek .....	6,000
		27,000
<b>PIERCE COUNTY—</b>		
J. B. Jenson, Ellsworth.....	Isabelle Creek .....	6,000
John Peterson, Ellsworth.....	Lost Creek .....	6,000
Martin Olson, River Falls.....	Foster's Spring .....	6,000
G. E. Pratt, River Falls.....	Kinnickinnic River .....	6,000
E. H. Currie, River Falls.....	Kinnickinnic River .....	6,000
A. Combacher, Ellsworth.....	Rush River .....	6,000
J. A. Clough, Spring Valley.....	Louisey Creek .....	3,000
	Cady Creek .....	3,000
B. S. Burhyte, River Falls.....	Kinnickinnic River .....	6,000
C. E. Meacham, Prescott.....	Big River .....	6,000
		54,000
<b>POLK COUNTY—</b>		
S. M. DeGoller, Richardson.....	Beaver Brook .....	6,000
J. F. Snyder, Amery.....	Bull Brook .....	3,000
	Beaver Brook .....	3,000
		12,000
<b>PORTAGE COUNTY—</b>		
A. J. Anderson, Amherst.....	To-morrow River .....	6,000
Wm. T. Waller, Nelsonville.....	Trib., Waupaca River.....	6,000
John C. Frost, Stevens Point.....	Plover River .....	6,000
John Een, Amherst.....	South Brch., Waupaca River	6,000
J. N. Rambeck, Peru.....	Tribs., To-morrow River.....	6,000
		30,000
<b>PRICE COUNTY—</b>		
Fred Myers, Prentice.....	Worcester's Lake .....	6,000
<b>ST. CROIX COUNTY—</b>		
Patrick Heefrod, New Richmond...	South Fork .....	6,000
Thos. Ward, New Richmond.....	Reed's Springs .....	6,000
L. G. Green, Hudson.....	Willow River .....	6,000
P. E. De Mille, Baldwin.....	Wood's Springs .....	6,000
S. S. Holmes, Baldwin.....	Barker Springs .....	6,000
F. F. Gray, Hudson.....	Jefferson Brook .....	6,000
B. Dean, Jewett.....	Pine Tree Springs .....	6,000
O. H. Gordon, Somerset.....	Apple River .....	6,000
Wm. Walsh, Cylon.....	Beebe Brook .....	6,000
L. J. Adgate, Cylon.....	Spring Creek .....	6,000
		60,000

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>SAUK COUNTY—</b>		
F. Bueldar, Prairie du Sac.....	Little Baraboo .....	6,000
W. E. Conger, Prairie du Sac.....	Honey Creek .....	6,000
M. H. Keysar, Prairie du Sac.....	Honey Creek .....	6,000
F. J. Farr, Prairie du Sac.....	Leman's Creek .....	6,000
O. J. Tabor, Prairie du Sac.....	Laymond's Creek .....	6,000
		30,000
<b>SHAWANO COUNTY—</b>		
O. H. Kowalske, Regina.....	North Branch .....	6,000
Jas. K. Stewart, Hunting.....	N. Branch, Pigeon River.....	6,000
A. B. Glaubitz, Wittenberg.....	Embarrass River .....	6,000
		18,000
<b>SHEBOYGAN COUNTY—</b>		
B. H. Sanford, Sheboygan Falls.....	Head, Milwaukee River.....	6,000
Jas. Slyfield, Waldo.....	Head-waters, Onion River....	6,000
Jas. Mallman, Sheboygan.....	Tributary, Sheboygan River.	12,000
		24,000
<b>TAYLOR COUNTY—</b>		
J. B. Haugartz, Medford.....	Black River .....	6,000
T. G. Jeffers, Medford.....	Deitrich's Creek .....	3,000
	Mink Creek .....	3,000
		12,000
<b>TREMPEALEAU COUNTY—</b>		
E. J. Kidder, Whitehall.....	Hay Creek .....	6,000
Ole Larson, Whitehall.....	Irvine Creek .....	6,000
Ludvig Sotsrud, Whitehall.....	Fitch Creek .....	6,000
P. L. Solberg, Whitehall.....	Jacob Creek .....	6,000
Iver Peterson, Ettrick.....	Pederson's Mill Pond.....	6,000
		30,000
<b>VERNON COUNTY—</b>		
Robert Hammer, Hillsboro.....	West Branch, Baraboo River And Tributaries .....	15,000
<b>VILAS COUNTY—</b>		
Finn Lawler, Eagle River.....	Spring Creek .....	3,000
	Churchill Brook .....	3,000
Ross Lumber Co., Arbor Vitae.....	Martin Creek .....	6,000
John Radcliffe, Eagle River.....	Spring Creek .....	6,000
H. Howlett, Conover.....	Head-waters, Tamarack Ck....	6,000
Dickenson & Cook, E. River.....	Cedar Creek .....	6,000
A. A. Denton, Eagle River.....	Musk-rat Creek .....	6,000
H. B. Chopin, Milwaukee.....	Clear Lake .....	6,000
N. A. Coleman, Eagle River.....	Kenluck Lake .....	6,000
Fred Morey, Eagle River.....	Silver Lake .....	6,000
Jos. Hughes, Eagle River.....	Deer Skin River.....	6,000
		60,000
<b>WASHBURN COUNTY—</b>		
Wm. Busch, Spooner.....	Yellow River .....	6,000
<b>WAUKESHA COUNTY—</b>		
Frank P. Ziegler, Milwaukee.....	DeNoon Lake .....	6,000

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>WAUPACA COUNTY—</b>		
J. H. Coffman, Marion.....	Spring Brook .....	3,000
	Churchell Brook .....	3,000
Wm. Gould, Clintonville.....	Beaver Creek .....	6,000
Wm. Schimke, Clintonville.....	Spring Brook .....	3,000
Chas. Bucholz, Clintonville.....	Shaw Creek .....	3,000
Aug. Ahlyrinson, Pella.....	Main Embarrass .....	6,000
F. P. Jones, Clintonville.....	Pigeon Creek .....	3,000
L. E. Knudson, Clintonville.....	Mattison Creek .....	3,000
John D. Miller, Marion.....	North Brch., Pigeon River.....	3,000
J. T. Hickey, New London.....	Potter's Creek .....	3,000
	Boardman Creek .....	3,000
	Careen Creek .....	3,000
	Maple Creek .....	3,000
	Embarrass River .....	3,000
	Deer Creek .....	3,000
	Turrey's Pond .....	3,000
	Chinese Pond .....	3,000
Brooks and Root, Sheridan.....	Waupaca River .....	6,000
H. M. Olson, Sheridan.....	Nevin Creek .....	3,000
O. J. Olsson, Sheridan.....	Headland Creek .....	3,000
John Jobson, Sheridan.....	Silver Creek .....	3,000
W. B. Baker, Waupaca.....	Emma Creek .....	6,000
	Radley Creek .....	6,000
Frank Stout, Waupaca .....	South Brch., Little Wolf....	12,000
	North Brch., Owl Creek.....	9,000
W. R. Parks, Iola.....	Tresness Creek .....	6,000
Ole C. Seiler, Scandinavia.....	Spaulding Creek .....	3,000
	Paulson Creek .....	3,000
	Jones' Creek .....	3,000
	Sether Creek .....	3,000
C. H. Anderson, Scandinavia.....	N. Brch., Little Wolf.....	6,000
L. M. Jackson, Manawa.....	N. Brch. of the South Brch. of Little Wolf River.....	6,000
F. Lindekugel, Manawa.....	North Brch., Waupaca River	6,000
		141,000
<b>WAUSHARA COUNTY—</b>		
C. A. Smart, Wild Rose.....	Clayton Creek .....	3,000
W. L. Wilson, Springwater.....	Pine River .....	3,000
		6,000
Total distribution for 1897.....		1,191,000



*Distribution of Fish.*

## WALL-EYED PIKE DISTBIBUTION, 1897.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>BARRON COUNTY—</b>		
E. K. Brayton, Rice Lake.....	Tuscobia Lake .....	200,000
I. F. Allen, Rice Lake.....	Tuscobia Lake .....	200,000
Frank Fiske, Turtle Lake.....	Big Horse-shoe Lake.....	200,000
Albert Rosenbush, Turtle Lake.....	Little Round Lake.....	200,000
F. C. Wickenburg, Turtle Lake.....	Echo Lake .....	200,000
F. W. Miller, Cumberland.....	Beaver Dam Lake.....	200,000
		1,200,000
<b>BAYFIELD COUNTY—</b>		
Rust Owen Lbr. Co., Drummond....	Long Lake .....	300,000
	Bass Lake .....	100,000
Currie G. Bell, Bayfield.....	Siskowitt Lake .....	400,000
Frank Hammill, Cable.....	Bass Lake .....	200,000
C. P. Barker, Iron River.....	Iron Lake .....	200,000
H. R. Van Alstine, Iron River.....	Little Pine Lake.....	200,000
Hollon Richardson, Iron River.....	Lake (no name) near Iron R.	200,000
		1,600,000
<b>CHIPPEWA COUNTY—</b>		
P. S. Peterson, Bloomer.....	Bloomer Pond .....	200,000
E. H. Rodgers, Bloomer.....	Shaddock Lake .....	200,000
A. A. Korn, Jr., Stanley.....	Otter Lake .....	300,000
		700,000
<b>CLARK COUNTY—</b>		
John H. Chesak, Athens.....	Black Creek .....	300,000
<b>COLUMBIA COUNTY—</b>		
L. N. Coapman, Wyocena.....	Duck Creek .....	300,000
<b>DANE COUNTY—</b>		
C. E. Shannon, Stoughton.....	Lake Kegonsa .....	300,000
T. C. Lund, Stoughton.....	Lake Kegonsa .....	300,000
Chris. Legried, London.....	Lake Ripley .....	300,000
		900,000
<b>DOUGLAS COUNTY—</b>		
August W. Kunert, Superior.....	Round Lake .....	200,000
A. G. Aiscamp, Superior.....	Bardon Lake .....	100,000
	Bardon Slough .....	100,000
William Wegner, Superior.....	Lake Wegner .....	200,000
Jos. Roper, Superior.....	Bond Lake .....	200,000
John A. Bardon, Superior.....	Bardon Lake .....	200,000
Gordon Young, Gordon.....	Island Lakes .....	400,000
K. W. Lewis, Minong.....	Bass Lake .....	200,000
N. Lucius, Jr., Solon Springs.....	Upper St. Croix Lake .....	200,000
David Dobie, Minnesung.....	Minnesung Lake .....	200,000
		2,000,000
<b>DUNN COUNTY—</b>		
F. J. Basner, Wheeler.....	Hay River .....	300,000
F. S. Sherwood, Wheeler.....	Big Beohur Creek .....	300,000
D. C. Baldwin, Colfax.....	Red Cedar River.....	300,000
		900,000
<b>EAU CLAIRE COUNTY—</b>		
Marshall Cousins, Eau Claire.....	Washington Pond .....	400,000

*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION, 1911—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>GREEN COUNTY—</b>		
H. C. Putnam, Sr., Brodhead.....	Sugar River .....	300,000
William Roantree, Brodhead.....	Spring Creeks, Tributary to Sugar River .....	300,000
		600,000
<b>JEFFERSON COUNTY—</b>		
F. J. Fohljahn, Rome.....	Bark River .....	300,000
O. C. Vaughn, Jefferson.....	Lake Ripley .....	300,000
		600,000
<b>JUNEAU COUNTY—</b>		
Jas. Roach, Mauston.....	One-Mile Creek .....	300,000
Henry Schall, Mauston.....	Lemonweir River .....	300,000
H. C. Thompson, Mauston.....	Lemonweir River .....	300,000
		900,000
<b>LA FAYETTE COUNTY—</b>		
J. B. Simpson, Shullsburg.....	March Lake .....	300,000
M. P. Kennedy, Gratiot.....	Pecatonica River .....	300,000
R. F. Dougherty, Darlington.....	Pecatonica River .....	300,000
E. T. W. Barnes, Darlington.....	Pecatonica River .....	300,000
		1,200,000
<b>LANGLADE COUNTY—</b>		
C. L. Leykora, Antigo.....	Moose Lake .....	300,000
John Veidt, Summit Lake.....	Summit Lake .....	300,000
M. G. Stickney, Antigo.....	Duck Lake .....	300,000
W. H. Dawley, Antigo.....	Kellogg's Pond .....	300,000
Elmer E. Thompson, Antigo.....	Thompson Lake .....	300,000
Geo. Bremer, Summit Lake.....	Summit Lake .....	300,000
		1,800,000
<b>MARATHON COUNTY—</b>		
Henry Seim, Wausau.....	Big Rib River .....	300,000
Ed. C. Hall, Jr., Wausau.....	Wisconsin River .....	300,000
		600,000
<b>MILWAUKEE COUNTY—</b>		
C. Niss, Milwaukee.....	Milwaukee River .....	600,000
<b>MONROE COUNTY—</b>		
T. O. Thorbus, Sparta.....	Paper Mill Pond.....	300,000
F. L. French, Sparta.....	Perch Lake .....	300,000
		600,000
<b>POLK COUNTY—</b>		
D. G. Jones, Clear Lake.....	Clear Lake .....	200,000
<b>RACINE COUNTY—</b>		
Shennan's Park Hotel, Burlington....	Brown's Lake .....	300,000
Waller & Gittings, Burlington.....	Brown's Lake .....	300,000
		600,000
<b>ST. CROIX COUNTY—</b>		
O. C. Van Meter, New Richmond.....	Willow River Pond .....	200,000
<b>SAWYER COUNTY—</b>		
William Hogue, Hayward.....	Round Lake .....	200,000
Har. Shue, Hayward.....	Round Lake .....	200,000
		400,000

*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION, 1897—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>VILAS COUNTY—</b>		
N. A. Coleman, Eagle River.....	Lake Emogene .....	150,000
	Kentuck Lake .....	150,000
A. E. McKinzie, Eagle River.....	Big Bass Lake.....	300,000
Matt. Herzel, Eagle River.....	Gordon Lake .....	300,000
W. H. Cannon, Madison.....	Lake Margaret .....	600,000
		1,500,000
<b>WALWORTH COUNTY—</b>		
Allen F. Caldwell, Whitewater.....	Green Lake .....	600,000
<b>WASHBURN COUNTY—</b>		
William Busch, Spooner.....	Mud Lake .....	200,000
Wm. Hellene, Spooner.....	Mud Lake .....	200,000
G. L. Jones, Snell Lake.....	Shell Lake .....	200,000
E. D. Baker, Shell Lake.....	Lake in Township 38, R. 11 (no name) .....	200,000
Geo. Tozer, Spooner.....	Little Mud Lake .....	200,000
O. H. Ingraham, Eau Claire.....	Long Lake .....	600,000
		1,600,000
<b>WAUKESHA COUNTY—</b>		
H. Bowman, Genesee.....	White Creek Lake .....	300,000
W. H. Fanner, Eagle.....	Husten's Lake .....	300,000
J. C. Schuette, Muskego Center.....	Muskego Lake .....	300,000
Frank P. Ziegler, Milwaukee.....	DeNoon Lake .....	600,000
L. Maschouser, Nashotah.....	Okauchee Lake .....	300,000
		1,800,000
<b>WAUPACA COUNTY—</b>		
Emor H. Lynch, Crystal Lake.....	Sand Lake .....	150,000
	Bass Lake .....	150,000
Philip A. Ham, Crystal Lake.....	Pine Lake .....	300,000
W. L. Wilson, Spring Water.....	Long Lake .....	150,000
	Pine Lake .....	150,000
Wm. Ruthford, Waupaca.....	Hunter's Creek .....	300,000
		1,200,000
Total distribution, 1897.....		23,300,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>ASHLAND COUNTY—</b>		
Geo. P. Rossman, Ashland.....	Brunsweller Creek .....	6,000
Geo. Sell, Glidden.....	Magee Creek .....	6,000
A. A. Markl, Mellen.....	Oppgard Creek .....	3,000
John Pearl, Butternut.....	Barn's Creek .....	3,000
	Stocking Creek .....	3,000
C. F. Graf, Butternut.....	Pine Creek .....	3,000
	Butternut Creek .....	3,000
		27,000
<b>BARRON COUNTY—</b>		
G. E. Scott, Prairie Farm.....	Silver Creek .....	3,000
I. Sprague, Prairie Farm.....	Vancer Creek .....	3,000
J. H. Bunker, Turtle Lake.....	Smith's Creek .....	5,000
A. Rosenbush, Turtle Lake.....	Beaver Brook .....	5,000
H. S. Comstock, Cumberland.....	Big Springs .....	5,000
W. H. Cleony, Cumberland.....	Deep Springs .....	5,000
P. J. Heintz, Rice Lake.....	Barker Creek .....	3,000
P. E. Olsen, Rice Lake.....	North Brch., Rock Creek.....	3,000
Chas. J. Beecher, Rice Lake.....	Cob Creek .....	3,000
A. A. Gabriel, Rice Lake.....	Rock Creek .....	3,000
Wm. Boehmer, Rice Lake.....	Hickey Creek .....	3,000
Geo. Andersen, Rice Lake.....	Barker's Creek .....	3,000
T. W. Bomm, Barron.....	Pine Creek .....	2,500
	Brown's Creek .....	2,500
R. A. Burton, Barron.....	Cranberry Creek .....	2,500
S. Christiansen, Barron.....	Quaderer's Creek .....	2,500
D. Post, Barron.....	Johnson Creek .....	2,500
D. A. Russell, Dallas.....	West Pine Creek .....	3,000
Torger Olson, Dallas.....	Stony Creek .....	3,000
Harry Halverson, Dallas.....	South Pine Creek .....	3,000
K. Espeseth, Dallas.....	East Pine Creek .....	3,000
		68,500
<b>BAYFIELD COUNTY—</b>		
Frank Hammill, Cable.....	Big Brook .....	5,000
C. G. Bell, Bayfield.....	Siskowit River .....	7,500
Nelson Brothers, Bayfield.....	Onion River .....	5,000
Wm. Knight, Bayfield.....	Ray's Creek .....	8,000
D. J. Estabrook, Washburn.....	Four Mile Creek .....	5,000
	Sioux River .....	5,000
Saml. Bally, Bayfield.....	Spring Brook .....	4,000
J. L. Sayles, Pratt.....	Eighteen-mile Creek .....	2,500
	Twenty-mile Creek .....	2,500
Iver Lien, Mason.....	Spring Brook .....	6,000
F. A. Bell, Iron River.....	Trout Brook .....	5,000
C. D. Ramsdell, Iron River.....	Ramsdell Brook .....	5,000
H. O. Lund, Iron River.....	East Flag River .....	2,500
	West Flag River .....	2,500
W. G. Bohn, Iron River.....	East Fork, Iron River.....	5,000
		70,500
<b>BROWN COUNTY—</b>		
Chas. J. Kimball, Green Bay.....	Beaver Dam Creek .....	3,000
Timothy Burke, Wayside.....	Branch River .....	6,000
J. L. Wilcox, Green Bay.....	Whipple Brook .....	6,000
Victor Bader, Green Bay.....	Shirland Creek .....	3,000
		18,000



*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>BUFFALO COUNTY—</b>		
S. D. Hubbard, Mondovi.....	Harvey Creek .....	3,000
	Carroll Creek .....	3,000
	Rossman Creek .....	3,000
	Paeso Creek .....	3,000
S. Gilman, Mondovi.....	Gilman Creek .....	3,000
Harvey Brown, Modena.....	Modena Valley Creek .....	3,000
J. W. Whelan, Mondovi.....	Holmes Creek .....	3,000
	Mill Creek .....	3,000
	Hoyt Creek .....	3,000
	Rossman Creek .....	3,000
		30,000
<b>CHIPPEWA COUNTY—</b>		
E. A. Martin, Cauott.....	Coon Creek .....	3,000
	Wild Cat Creek .....	3,000
R. H. Torford, Boyd.....	Hay Creek .....	3,000
	Hill's Creek .....	3,000
S. R. Kaiser, Cadott.....	Spring Creek .....	6,000
Snyder Brothers, Cook's Valley.....	Branch of Trout Creek.....	3,000
A. Detline, Bloomer.....	West Brch., O'Neil Creek....	3,000
John Ellsworth, Bloomer.....	Chissman Creek .....	3,000
	Conroy Creek .....	2,500
P. H. Lindley, Chippewa Falls.....	Little Hay Creek.....	2,500
L. Vincent, Chippewa Falls.....	Big Hay Creek .....	2,500
O. C. Detloff, Chippewa Falls.....	Hanneman Creek .....	2,500
C. K. Erwin, Chippewa Falls.....	Silver Springs Brook.....	5,000
E. W. Hill, Appolonia.....	Mad Creek .....	5,000
		46,500
<b>CLARK COUNTY—</b>		
Peter Cattanaach, Snow.....	Barker's Creek .....	6,000
V. U. Mason, Snow.....	Spring Creek .....	6,000
E. W. Balch, Neillsville.....	East Brch., Wedge's Creek..	3,000
	Cawley Creek .....	3,000
G. R. Klopff, Neillsville.....	Pony Creek .....	6,000
Joseph Mack, Loyal.....	Alder Creek .....	3,000
	South Fork .....	3,000
Fred A. Nelson, Unity.....	Wheeler Creek .....	3,000
John Moore, Thorpe.....	Daly Creek .....	3,000
	Mead Creek .....	3,000
		39,000
<b>COLUMBIA COUNTY—</b>		
S. C. Cook, Portage.....	Maynard Creek .....	6,000
Danl. Bentley, Hartman.....	Rocky Run .....	6,000
		12,000
<b>CRAWFORD COUNTY—</b>		
J. P. Barnum, Prairie du Chien.....	Lane Brook .....	9,000
Aug. Kessler, Wauzeka.....	Grand Grey Creek.....	6,000
W. S. Manning, Soldiers' Grove.....	Johnson Creek .....	3,000
	Trout Creek .....	3,000
J. O. Davidson, Soldiers' Grove.....	Soldiers' Grove Creek.....	6,000
	Knapp's Creek .....	3,000
Tim Garrity, Soldiers' Grove.....	Bear Creek .....	6,000
M. Hendrickson, Soldiers' Grove.....	Johnson Creek .....	3,000
		39,000
<b>DANE COUNTY—</b>		
Jos. Henderson, Rileys.....	Henderson Creek .....	6,000
Henry Boning, Bascoe.....	Trib., Sugar River.....	6,000
Frank Prucia, Bellville.....	Rig Creek .....	6,000
C. M. Clarke, Stoughton.....	Tribs., Bad-fish Creek.....	6,000
		24,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>DODGE COUNTY—</b>		
Eugene Ziegler, Mayville.....	Koepsell Creek .....	3,000
	Decker's Creek .....	3,000
		6,000
<b>DOUGLAS COUNTY—</b>		
E. J. Favell, West Superior.....	Goose Creek .....	3,000
N. Lucius, Jr., Solon Springs.....	Copper Creek .....	3,000
J. Bergin, Gordon.....	Brule River .....	6,000
W. J. Conness, Brule.....	Spring Brook .....	6,000
	Little Brule River.....	5,000
		23,000
<b>DUNN COUNTY—</b>		
E. B. Jackson, Prairie Farm.....	Dougherty Creek .....	3,000
Robt. R. Porter, Wheeler.....	Big Otter Creek.....	3,000
Hans M. Olsen, Colfax.....	S. Brch., Eighteen-Mile Creek	6,000
L. A. Larson, Colfax.....	N. Brch., Eighteen-Mile Creek	3,000
H. O. Peterson, Colfax.....	S. Brch., Eighteen-Mile Creek	3,000
B. Tollefson, Colfax.....	Beaver Creek .....	3,000
W. H. Allen, Menomonie.....	Varney Creek .....	3,000
L. Ingraham, Menomonie.....	Hall Creek .....	3,000
F. B. Wilson, Menomonie.....	Irvine Creek .....	3,000
E. J. Newsome, Menomonie.....	Irvine Creek .....	3,000
Chas. Ingraham, Menomonie.....	Gilbert Creek .....	3,000
W. A. Scanlan, Menomonie.....	Elk Creek .....	3,000
J. H. Stout, Menomonie.....	Elk Creek .....	3,000
		48,000
<b>EAU CLAIRE COUNTY—</b>		
William J. Star, Eau Claire.....	Various spring creeks near Eau Claire .....	12,500
B. A. Buffington, Eau Claire.....	Elk Creek .....	3,000
	Lowes Creek .....	3,000
A. A. Cutter, Eau Claire.....	Beaver Creek .....	3,000
B. S. Phillips, Eau Claire.....	Eighteen-mile Creek .....	3,000
Marshall Cousins, Eau Claire.....	Loose Creek .....	3,000
	Cooks Creek .....	3,000
Geo. W. Pond, Eau Claire.....	Otter Creek .....	3,000
Herman Lange, Eau Claire.....	Coon Creek .....	3,000
Henry Russell, Augusta .....	Bridge Creek .....	6,000
G. E. Bartz, Fall Creek.....	Beaver Creek .....	6,000
		48,500
<b>FOND DU LAC COUNTY—</b>		
John Armen, Fond du Lac.....	Empire Creek .....	3,000
J. J. Gromme, Fond du Lac.....	Forest Brook .....	3,000
H. W. Geisse, Fond du Lac.....	Mullett River .....	3,000
O. F. Jaeger, Fond du Lac.....	Willow Creek .....	3,000
C. F. Schleger, Fond du Lac.....	Spring Brook .....	3,000
Paul J. Fritz, Fond du Lac.....	Parson Creek .....	3,000
Saml. H. Longdin, Fond du Lac.....	Fisher Creek .....	3,000
W. R. Frietenstein, Fond du Lac.....	Andersen's Creek .....	3,000
Chas. F. Geisse, Fond du Lac.....	Tributary, Milwaukee River..	3,000
L. E. Reed, Ripon .....	Ray Creek .....	3,000
E. J. Burnside, Ripon .....	Silver Creek .....	3,000
H. P. Cody, Ripon .....	Long's Creek .....	3,000
E. F. Reichmott, Ripon .....	Snake Creek .....	3,000
T. S. Chittenden, Ripon .....	Martin Creek .....	3,000
W. T. Runnals, Ripon .....	Silver Creek .....	3,000
C. W. Stewart, Ripon .....	Saule's Creek .....	3,000
L. W. Thayer, Ripon .....	Henderson Creek .....	6,000
H. C. Eversz, Ripon .....	Saule's Creek .....	3,000
Robt. Denz, Elmore.....	Denz Spring Brook .....	3,000
Wm. Wedde, New Cassel .....	Hawkins Creek .....	3,000
G. Van du Grinten, New Cassel.....	McCullough's Creek .....	3,000
		66,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>GRANT COUNTY—</b>		
W. G. Palmer, Boscobel.....	Seeley Creek .....	3,000
W. J. F. Nauert, Boscobel.....	Crooked Creek .....	3,000
Chas. Wolf, Boscobel .....	Saunders Creek .....	3,000
Jud. P. Walker, Boscobel .....	Hungerford's Creek .....	3,000
B. T. Williams, Boscobel .....	Basey Creek .....	3,000
G. D. Walker, Boscobel .....	Chittwood Creek .....	3,000
T. R. Cheeseboro, Boscobel.....	Indian Creek .....	3,000
A. J. Howell, Lancaster.....	Borah Branch .....	6,000
S. E. Hassel, Lancaster.....	Chubb Branch .....	6,000
H. A. Davis, Montfort.....	Tributaries to Blue River....	6,000
Frank W. Cheesebro, Muscoda.....	Branch of Coon Creek.....	3,000
L. C. McCullum, Muscoda.....	Ludwig Branch .....	3,000
O. W. Fessel, Muscoda.....	Coon Creek .....	3,000
G. A. Elliot, Muscoda.....	Hoosier Creek .....	3,000
Chas. McMillan, Boscobel.....	West Brch., Coon Creek.....	3,000
R. S. Olmstead, Woodman.....	Little Greene .....	3,000
		57,000
<b>GREEN COUNTY—</b>		
W. W. Chadwick, Monroe .....	Tributary of Sugar River....	6,000
O. E. Stamm, New Glarus.....	Trib., Sugar River .....	3,000
	Trib., Pecatonica River.....	3,000
		12,000
<b>GREEN LAKE COUNTY—</b>		
Geo. W. Morton, Berlin .....	Waterman Creek .....	6,000
Fred W. Stewart, Berlin .....	Willow Creek .....	3,000
William Stewart, Berlin .....	Willow Creek .....	3,000
		12,000
<b>IOWA COUNTY—</b>		
John Burris, Clyde.....	Burris Branch .....	3,000
Julia Bennett, Pine Knob.....	Trib., Otter Creek .....	3,000
Wm. Kramer, Jonesdale .....	Spring Branch .....	3,000
H. R. Carter, Jonesdale.....	Tobin Creek .....	3,000
	Weir Creek .....	3,000
Thomas Thomas, Dodgeville .....	Head of Pecatonica River....	6,000
Frank F. Starry, Barneveld.....	Walnut-hollow Creek .....	3,000
	Mill Creek .....	3,000
Fred Jewell, Dodgeville .....	Head of Pecatonica River .....	6,000
Saml. W. Reese, Dodgeville.....	Regan Creek .....	3,000
	Bunker Creek .....	3,000
	Snead Creek .....	3,000
	Harker Creek .....	3,000
	Hepstock's Springs .....	6,000
J. T. Paull, Ridgeway.....	Rock Branch .....	3,000
Geo. H. Mausten, Mineral Point.....	Verning Creek .....	3,000
W. H. Priedeaux, Mineral Point.....	Graber Creek .....	3,000
A. Apple, Mineral Point .....	Synche Creek .....	3,000
J. M. Mulhairn, Mineral Point.....	Berg Creek .....	3,000
Geo. D. Masten, Mineral Point.....	Pecatonica River .....	6,000
J. C. Kirkpatrick, Rewey.....		
		72,000
<b>IRON COUNTY—</b>		
Frank Grant, Curry.....	Potatoe River .....	12,000
<b>JACKSON COUNTY—</b>		
A. J. Patterson, North Bend.....	Langston Creek .....	3,000
	Mill Creek .....	3,000
S. L. Brist, Shamrock.....	Trout Creek .....	3,000
	Stony Creek .....	3,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>JACKSON COUNTY—Continued.</b>		
F. Johnson, Black River Falls.....	Squaw Creek .....	3,000
	Vincent Creek .....	3,000
R. D. Squires, Black River Falls.....	Squaw Creek .....	3,000
	Snow Creek .....	3,000
B. H. Bight, Black River Falls.....	Allen's Creek .....	3,000
Chas. Sechler, Sechlerville.....	Pisno Creek .....	3,000
J. B. Miller, Alma Center .....	Sechlerville Brook .....	6,000
E. E. Moore, Merrillan .....	Judkins Creek .....	6,000
	Bisno Creek .....	3,000
E. B. Sanders, Merrillan .....	Hall Creek .....	3,000
	Pigeon Creek .....	3,000
Geo. W. Purnell, Merrillan.....	Bovee Creek .....	3,000
	Hall Creek .....	3,000
H. J. Ornsby, Black R. Falls.....	Crombie Creek .....	3,000
	Trout Run .....	6,000
	Kenyon Creek .....	3,000
	Spring Creek .....	3,000
		72,000
<b>JEFFERSON COUNTY—</b>		
L. H. Washburne, Palmyra.....	Aurelin Creek .....	6,000
E. R. Trippe, Palmyra.....	Spring Creek .....	3,000
		9,000
<b>JUNEAU COUNTY—</b>		
John Conway, Elroy .....	Millers Creek .....	3,000
	Prairie Creek .....	3,000
Henry Schall, Mauston .....	Bremer Creek .....	6,000
Geo. Eakins, Lyndon .....	Lyndon Creek .....	3,000
	Weber Creek .....	3,000
A. D. Gill, New Lisbon.....	Macomber Creek .....	3,000
F. E. Hurd, New Lisbon .....	Kenney Creek .....	3,000
	Macomber Creek .....	3,000
	Fountain Creek .....	6,000
	Houghton Creek .....	3,000
C. E. Babcock, Necedah.....	Johnson Creek .....	3,000
F. M. Reed, Necedah.....	Scoonover Creek .....	3,000
E. D. Bartholomew, Necedah.....	North Creek .....	3,000
W. A. Reed, Necedah.....	Dead-horse Creek .....	3,000
A. H. Maxon, Necedah.....	Spring Creek .....	3,000
J. E. Daly, Necedah.....	Wris Creek .....	3,000
		54,000
<b>LA CROSSE COUNTY—</b>		
John Markl, La Crosse.....	Mormon Cooley Creek .....	6,000
Buttles & Pierce, Onalaska.....	Half-way Creek .....	3,000
	Sand Lake Cooley Creek .....	3,000
John Erickson, Bangor .....	Fish Creek .....	6,000
Frank Bradley, Bangor.....	Burns Creek .....	3,000
Wm. Smith, Bangor .....	Dutch Creek .....	3,000
Thos. Barclay, West Salem.....	McConnell Creek .....	3,000
	Brown's Creek .....	3,000
	Flemming Creek .....	3,000
Jas. J. Hogan, La Crosse .....	Fishback Creek .....	6,000
Alex. Johnson, West Salem .....	Erickson Creek .....	3,000
	Mikkelson Creek .....	3,000
	Thompson Creek .....	3,000
	McElowney Creek .....	3,000
	Luce Creek .....	3,000
Jas. McCord, La Crosse .....	Krall Creek .....	6,000
	La Crosse Creek .....	6,000



*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>LA CROSSE COUNTY—Continued.</b>		
A. Hirschheimer, La Crosse .....	Krall Creek .....	6,000
	North Brch., Coon Creek.....	6,000
	Guiss Creek .....	3,000
W. J. Scott, Madison .....	Brown's Creek .....	3,000
	McEidowney Creek .....	3,000
	Jones Creek .....	3,000
		90,000
<b>LA FAYETTE COUNTY—</b>		
W. E. Robinson, Blanchardville.....	Gunstid Creek. ....	3,000
Jas. Blanchard, Blanchardville.....	Cowell Creek .....	3,000
E. Schoruhart, Gratiot .....	Gillis Creek .....	3,000
	Wolf Creek .....	3,000
M. P. Kennedy, Gratiot.....	Gallagher's Creek .....	3,000
	Wolf Creek .....	3,000
Michael Derrick, Fayette.....	Derrick Branch .....	3,000
	Finley Branch .....	3,000
E. W. Smith, Darlington.....	Outer Creek .....	6,000
		30,000
<b>LANGLADE COUNTY—</b>		
C. W. Maney, Elcho.....	Spring Brook .....	6,000
John Veldt, Summit Lake.....	Hunting River .....	6,000
Jos. Shacher, Pearson .....	Steven's Creek .....	6,000
W. H. Hogan, Antigo.....	Spring Brook .....	6,000
		24,000
<b>LINCOLN COUNTY—</b>		
Henry Dudley, Merrill .....	Prairie River .....	6,000
W. H. Flett, Merrill.....	Tomahawk River, above Dam .....	3,000
	Squaw Creek .....	3,000
	Spirit River .....	3,000
	Hay-meadow Creek .....	3,000
Howen & Flemming, Tomahawk....	Brch., Little Rice Creek.....	3,000
Rufus Manson, Tomahawk.....	Scanawon Creek .....	3,000
John P. Hugues, Tomahawk.....	Tomahawk River, above Dam .....	3,000
	Squaw Creek .....	3,000
	Spirit River .....	3,000
	Hay-meadow Creek .....	3,000
		36,000
<b>MARATHON COUNTY—</b>		
David Winton, Wausau.....	Winton Creek .....	3,000
Fred Genrich, Wausau.....	Eau Claire River .....	3,000
J. M. Smith, Wausau.....	Little Rib River .....	3,000
Franklin Bonny, Wausau.....	Sandy Creek .....	3,000
Chas. Winton, Wausau .....	Plover River .....	3,000
John Miller, Wausau .....	Mow Brook .....	3,000
Neal Brown .....	Plover River .....	6,000
G. E. Vandercook, Madison.....	Little Eau Pleine River.....	6,000
Robt. T. Freeman, Mosinee.....	Freeman Creek .....	3,000
W. N. Daniels, Mosinee.....	Freeman Creek .....	3,000
Tom R. Guenther, Knowlton.....	Four-mile Creek .....	6,000
		42,000
<b>MARINETTE COUNTY—</b>		
H. S. Clute, Marinette.....	Middle Inlet .....	6,000
John Huff, Wausaukee.....	Wausaukee River .....	6,000
C. H. Quirsloren, Pembine.....	Pembine River .....	6,000
John Wood, Amberg.....	Pike River .....	6,000
W. A. Brown, Marinette.....	Muckaria River .....	6,000
	Hand-saw Creek .....	3,000
Geo. W. Taylor, Marinette.....	Thunder River .....	6,000
		42,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>MARQUETTE COUNTY—</b>		
Thos. Wells, Jr., Neshkoro.....	White River .....	6,000
A. H. Scobie, Neshkoro.....	Little Lunch Creek .....	3,000
	White River, above Dam.....	3,000
Oscar J. Weiss, Westfield.....	Head of Duck Creek.....	3,000
Frank Ogle, Westfield.....	Pinkerton Creek .....	3,000
William Guderjahn, Liberty Bluff....	Chaffee Creek .....	6,000
		24,000
<b>MONROE COUNTY—</b>		
Fred Gross, Sparta.....	Sparta Creek .....	3,000
	Tarr Creek .....	3,000
Paul Schaller, Sparta.....	Squaw Creek .....	3,000
	Ash Run .....	3,000
Jacob Snyder, Sparta.....	Brackett Creek .....	3,000
Burton & Graves, Sparta.....	Beaver Creek .....	3,000
D. C. Hope, Sparta.....	Silver Creek .....	3,000
	Swamp Creek .....	3,000
F. L. French, Sparta.....	Bailey Creek .....	3,000
	Sargent Creek .....	3,000
Victor Mistle, Camp Douglas.....	Indian Creek .....	6,000
A. L. Halstead, Warrens.....	Whiskey Creek .....	3,000
Melvin Lawton, Warrens.....	Rudd Creek .....	3,000
S. I. Dale, Warrens.....	Burr Creek .....	3,000
W. L. Howes, Tomah.....	Flora Creek .....	3,000
	Sparta Creek .....	3,000
	Ash Creek .....	3,000
	Squaw Creek .....	3,000
	Little Silver Creek .....	3,000
	Cales Creek .....	3,000
	Big Silver Creek .....	3,000
	Tarr Creek .....	3,000
Saml. Sloggy, Ontario.....	Brush Creek .....	3,000
	Cook Creek .....	3,000
	Billing's Creek .....	3,000
	Weister Creek .....	3,000
		81,000
<b>ONEIDA COUNTY—</b>		
A. W. Shelton, Rhinelanders.....	Schurb's Creek .....	3,000
	Nosing Creek .....	3,000
John Davelin, Pratt Junction.....	Spring Brook .....	6,000
C. C. Yawkey, Hazlehurst.....	Kitty Creek .....	6,000
		18,000
<b>PEPIN COUNTY—</b>		
Aug. Thies, Pepin.....	Elk Creek .....	6,000
O. G. Potter, Pepin.....	Roaring River .....	6,000
N. A. Keyes, Durand.....	Crystal Creek .....	3,000
W. H. Huntington, Durand.....	Big Arkansasaw .....	2,500
W. H. Huntington, Durand.....	Little Arkansasaw Creek.....	2,500
	Porcupine Creek .....	2,500
	Plum Creek .....	2,500
H. Pattison, Tarrant.....	South Fork Bear Creek.....	3,000
		28,000
<b>PIERCE COUNTY—</b>		
W. C. Condit, Rock Elm.....	Big Missouri Creek .....	3,000
E. R. Condit, Rock Elm.....	Cave Creek .....	3,000
A. O. Belfanz, Rock Elm.....	Plum Creek .....	3,000
John Muller, Rock Elm.....	Plum Creek .....	3,000
John F. Davis, Brassington.....	Spring Rivulet .....	3,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>PIERCE COUNTY—Continued.</b>		
J. A. Clough, Spring Valley.....	Lucy Creek .....	3,000
H. D. Burghardt, Spring Valley.....	Trib., Eau Galle River.....	6,000
E. Holcomb, Spring Valley.....	French Creek .....	3,000
J. M. Curtiss, River Falls.....	Kinnickinnic River .....	3,000
R. M. Briggs, River Falls.....	South Fork .....	3,000
G. E. Pratt, River Falls.....	Kinnickinnic River .....	5,000
E. H. Currie, River Falls.....	North Fork, Kinnickinnic.....	3,000
Martin Olson, River Falls.....	Forter Springs .....	2,500
	East Branch .....	2,500
E. H. Lagerstedt, River Falls.....	Fuller Creek .....	3,000
H. G. Eklund, Moeville.....	Trimble River .....	2,500
	Isabelle Creek .....	2,500
C. W. Bateman, Ellsworth.....	Cave Creek .....	3,000
A. Combacher, Ellsworth.....	Rush River .....	3,000
		60,000
<b>POLK COUNTY—</b>		
C. S. Rimpert, Osceola Mills.....	Osceola Creek .....	5,000
John Howe, Amery.....	Spring Creek .....	5,000
		10,000
<b>PORTAGE COUNTY—</b>		
P. N. Peterson, Amherst.....	Peterson Creek .....	3,000
A. J. Anderson, Amherst.....	To-morrow River .....	6,000
Wm. S. Diver, Nelsonville.....	Trib., Waupaca River .....	3,000
John C. Frost, Stevens Point.....	Large Plover River.....	6,000
Wm. H. Cutting, Stevens Point.....	Little Plover .....	6,000
		24,000
<b>PRICE COUNTY—</b>		
W. F. Turner, Park Falls.....	Turner Springs .....	3,000
	Gardner Creek .....	3,000
Hugh Boyd, Fifield.....	Pelican Lake .....	6,000
		12,000
<b>RICHLAND COUNTY—</b>		
J. L. Hodson, Lone Rock.....	Norwegaon Creek .....	3,000
A. J. Dickerson, Lone Rock.....	Sullivan Creek .....	3,000
	Lost Hollow Creek.....	3,000
H. W. Haskell, Sr., Lone Rock.....	Earl Creek .....	3,000
	Symonson Creek .....	3,000
Grant L. Miner, Richland Center....	Feble Creek .....	3,000
Chas. B. Cornwall, Richland Center....	Mill Creek .....	3,000
W. I. Griffin, Richland Center.....	Cherry Valley Creek .....	3,000
M. S. Bowler, Richland Center.....	Willow Creek .....	6,000
Frank Bowen, Richland Center.....	Melanchlon Creek .....	3,000
W. H. Devoe, Richland Center.....	Hawkin's Creek .....	3,000
L. Baraber, Viola.....	Camp Creek .....	3,000
J. H. Frazier, Viola.....	Ruffon Creek .....	3,000
	Huffman Creek .....	3,000
V. P. Clark, Viola.....	Simmons' Creek .....	3,000
		48,000
<b>ST. CROIX COUNTY—</b>		
T. J. Lee, Cylon.....	Hay Creek .....	3,000
S. L. Pickett, Wilson.....	Wilson Creek .....	2,500
	Gilbert Creek .....	2,500
J. C. Daniels, Brookville.....	Eau Galle River.....	5,000
J. E. Jones, Hudson.....	Willow River .....	5,000
L. G. Greene, Hudson.....	Willow River .....	5,000
O. J. Williams, New Richmond.....	Ten-mile Creek .....	5,000
		28,000

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>SAUK COUNTY—</b>		
A. M. Reynolds, Reedsburg.....	Powers' Brook .....	3,000
A. Coleman, Reedsburg.....	Belin Creek .....	3,000
Herman Foss, Reedsburg.....	Dell Creek .....	3,000
H. Scherve, Reedsburg.....	Copper Creek .....	3,000
H. C. Hunt, Reedsburg.....	Twin Creek .....	6,000
R. M. Mathews, Ironton.....	Furnace Creek .....	3,000
		21,000
<b>SAWYER COUNTY—</b>		
Harry Shue, Hayward.....	.....	5,000
<b>SHAWANO COUNTY—</b>		
F. R. Schneider, Regina.....	Silver Creek .....	3,000
H. F. Jahnke, Regina.....	Brch. of west Embarrass....	3,000
E. J. McLean, Mattoon.....	West Brch., Red River.....	6,000
		12,000
<b>SHEBOYGAN COUNTY—</b>		
H. H. Eberhardt, Plymouth.....	Mullet River .....	6,000
Peter Marich, Scott.....	North Brch., Milwaukee River	6,000
E. B. Robinson, Waldo.....	Head-waters, Milwaukee Riv.	6,000
B. H. Sanford, Sheboygan Falls.....	Head, Milwaukee River .....	12,000
		30,000
<b>TREMPEALEAU COUNTY—</b>		
O. O. Dahl, Whitehall.....	Johnson Cooley .....	3,000
Jas. P. Mallory, Whitehall.....	Michel's Creek .....	3,000
W. S. Kidder, Whitehall.....	Johnson Cooley .....	6,000
C. H. Cook, Look Out.....	Cook's Creek .....	6,000
Geo. Kindschi, Montana.....	Holmes' Creek .....	3,000
	Montana Creek .....	3,000
H. L. Ekern, Whitehall.....	Fly Creek .....	3,000
	Elk Creek .....	3,000
M. C. Whipple, Eleva .....	Big Creek .....	6,000
E. A. Oleson, Osseo.....	King Creek .....	3,000
F. G. Davis, Galesville.....	French Creek .....	3,000
	Hardie's Creek .....	3,000
	Tamarack Creek .....	3,000
	Silver Creek .....	3,000
		51,000
<b>VERNON COUNTY—</b>		
H. A. Lombard, La Farge.....	Trib., Bear Creek .....	6,000
Ole Fredrickson, Westby.....	Timber Creek .....	3,000
Albert Corry, Viroqua.....	Bishop Branch .....	3,000
Jos. Boehrer, Viroqua.....	Sadie Branch .....	3,000
Anton Metby, Westby.....	Thiemeher Creek .....	3,000
Olef Roer, Westby.....	Upper Spring Creek .....	3,000
E. W. Hazen, Viroqua.....	Coe Branch .....	3,000
	Honaker Branch .....	3,000
J. K. Schriener, Westby.....	Spring Cooley Creek .....	3,000
Gus. Morterud, Bloomingdale.....	Tributary, West Brch., of Kickapoo River .....	6,000
Carl O'Byre, Westby.....	Coon Creek .....	6,000
John E. Casson, Viroqua.....	.....	6,000
Robert Hammer, Hillsboro.....	West Brch., Baraboo River and Tributaries .....	12,000
		60,000



*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>VILAS COUNTY—</b>		
Bent Brothers, State Line.....	Trout Creek .....	6,000
A. McKenzie, Eagle River.....	Deer-skin Creek .....	6,000
Albert Boonhie, Woodruff.....	South Brch., Manitowish Riv. ....	6,000
Jesse Coon, Woodruff.....	Turtle Waters .....	6,000
D. H. Sargent, Conover.....	Sargent Creek .....	6,000
John Bauckne, Eagle River.....	Tributary of Eagle River.....	6,000
John Green, Eagle River.....	Hay-meadow Creek .....	6,000
Henry Howlett, Conover.....	Buckatabon Creek .....	42,000
W. H. Cannon, Madison.....	Spring Branch .....	6,000
John W. Sutton, Minocqua.....	Spring Brook .....	6,000
Peter Stein, Star Lake.....	Big Bauckatebew .....	3,000
Salsich & Wilson, Star Lake.....	Manitowish River .....	3,000
	Lost Creek .....	3,000
Geo. O. Tupper, Star Lake.....	Johnson Creek .....	3,000
D. B. Harvison, Star Lake.....	Trout Creek .....	3,000
C. R. Beecher, Star Lake.....	Kitty Creek .....	3,000
		78,000
<b>WALWORTH COUNTY—</b>		
H. L. Halverson, Whitewater.....	Springer Creek .....	3,000
	Pollock Creek .....	3,000
C. B. Alrick, Whitewater.....	Bluff Creek .....	3,000
	Gould Creek .....	3,000
H. M. Trippe, Whitewater.....	Big-spring Creek .....	3,000
	Tiger Creek .....	3,000
Ed. Engleretsend, Whitewater.....	Brodway Creek .....	3,000
	Whitewater-Lake Creek .....	3,000
Chas. S. Weeks, Whitewater.....	Island Creek .....	3,000
	Territorial Creek .....	3,000
		30,000
<b>WASHBURN COUNTY—</b>		
W. M. Kellene, Spooner.....	Beaver Brook .....	3,000
C. W. Haskins, Spooner.....	Mud Brook .....	3,000
		6,000
<b>WASHINGTON COUNTY—</b>		
K. E. Klough, Rugby Junction.....	South Brch., Cedar Creek....	6,000
	North Brch., Cedar Creek.....	3,000
Henry Menger, Wayne.....	Wayne Creek .....	3,000
S. F. Mayer, West Bend.....	Gunther's Creek .....	6,000
		18,000
<b>WAUKESHA COUNTY—</b>		
Henry Bowman, Genesee.....	White Creek .....	6,000
A. T. Stebbins, Eagle.....	Jericho Creek .....	3,000
John Pfeister, Elm Grove.....	Spring Brook .....	6,000
Harry Dreyer, Waukesha.....	Jericho Creek .....	3,000
	Genesee Creek .....	3,000
Irving F. Staps, Hartland.....	Bark River .....	6,000
C. W. Frazer, Menomonie Falls.....	Menomonie River .....	6,000
		33,000
<b>WAUPACA COUNTY—</b>		
E. P. Jones, Clintonville.....	North Pigeon River .....	3,000
J. E. Lehr, Clintonville.....	Spring Brook .....	3,000
P. Stimson, Clintonville.....	Hyde Creek .....	3,000
Geo. Sutherland, Clintonville.....	Brch., Wolf River.....	6,000
John D. Miller, Marion.....	North Brch., Pigeon River....	6,000
W. B. Jeffers, Sheridan.....	Tributaries, Waupaca River..	6,000
J. F. Jardine, Waupaca.....	Ogdensburg Creek .....	3,000
	Lynd Creek .....	3,000
		33,000

5 Fish.

*Distribution of Fish.*

## BROOK TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>WAUSHARA COUNTY—</b>		
M. A. Fuller, Hancock.....	Little Roch-a-cris .....	3,000
G. N. Spaulding, Hancock.....	Mecan River .....	3,000
H. F. Bartz, Coloma Station.....	Wandrey Creek .....	3,000
L. F. Bishop, Coloma Station.....	Runnels' Creek .....	3,000
Lewie Smith, Coloma Station.....	Hesler Creek .....	3,000
G. S. Sherman, Coloma Station.....	Squires' Creek .....	3,000
J. R. McLaughlin, Coloma Station...	Big Roch-a-cris .....	3,000
Jas. T. Ellarson, Wautoma.....	White River and Tributaries	12,000
W. A. Bugh, Wautoma.....	Mecan River .....	6,000
D. Hoxie, Wautoma.....	Tributaries of Mecan River..	6,000
W. L. Roberts, Wautoma.....	Lunch Creek .....	6,000
		51,000
<b>WOOD COUNTY—</b>		
E. A. Benson, Vesper.....	Hemlock Creek .....	6,000
L. M. Nash, Centralla.....	Chester Creek .....	3,000
	Mill Creek .....	3,000
		12,000
Total distribution, 1898.....		1,903,000

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1898.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>ADAMS COUNTY—</b>		
W. R. Atcherson, Friendship.....	Big Roch-a-cris Creek.....	5,000
C. M. Simons, Friendship.....	Johnson Creek .....	2,500
L. Knight, Arkdale.....	Bay Brook Springs.....	2,500
A. M. Glorweigan, Friendship.....	Dead-horse Creek .....	2,500
S. W. Pierce, Friendship.....	Roch-a-cris Creek .....	5,000
	Little Roch-a-cris .....	2,500
	Cool Creek .....	2,500
		22,500
<b>ASHLAND COUNTY—</b>		
E. B. Gordon, Glidden.....	North Fork, Chippewa River .....	5,000
Nohl and Yankee, Ashland.....	Little Butternut Creek .....	5,000
C. F. Graf, Butternut.....	Spille Creek .....	2,500
	Richter Creek .....	2,500
John J. Hayden, Butternut.....	Wartgow Lake .....	5,000
Hugo Schmidt, Glidden.....	East Fork, Chippewa River..	5,000
Geo. Sell, Glidden.....	Lake (no name) in Sec. 24— 24—3 W. ....	5,000
		30,000
<b>BARRON COUNTY—</b>		
J. E. Horsman, Rice Lake.....	Silver Creek .....	5,000
D. A. Russell, Dallas.....	Sioux Creek .....	5,000
T. W. Borum, Barron.....	Hay River .....	5,000
C. C. Coe, Barron.....	Miller's Creek .....	5,000
		20,000
<b>CALUMET COUNTY—</b>		
Anton Groschel, Charlesburg.....	Groschel's Springs .....	5,000
<b>CHIPPEWA COUNTY—</b>		
E. H. Rodgers, Bloomer.....	Marstin Creek .....	2,500
	Gunn Creek .....	2,500
E. A. Martin, Cadott.....	Paint Creek .....	5,000
S. R. Kaiser, Cadott.....	Arkwright Creek .....	5,000
		15,000
<b>CLARK COUNTY—</b>		
Fred Klopf, Neillsville.....	East Brch., Wage's Creek....	2,500
R. W. Balch, Neillsville.....	Pauly Creek .....	2,500
	Jack Creek .....	2,500
Ernest Barth, Snow.....	North Branch .....	5,000
G. R. Klopf, Neillsville.....	Cawley Creek .....	5,000
G. I. Oatman, Chili.....	Wheelock Creek .....	5,000
John Stewart, Greenwood.....	Rock Creek .....	5,000
N. E. Denny, Abbotsford.....	Big Eau Pleine River .....	5,000
		32,500
<b>CRAWFORD COUNTY—</b>		
C. A. Hoffman, Bell Center.....	Turning Branch .....	5,000
T. J. Lewis, Bell Center.....	Curley Creek .....	5,000
F. Brightman, Bell Center.....	Hall Branch .....	5,000
J. A. Hays, Gays Mills.....	Bacon Creek .....	2,500
	Copper Creek .....	2,500
J. O. Davidson, Soldiers' Grove.....	Soldiers' Grove Creek.....	5,000
	Knapp Creek .....	5,000
Tim Garrity, Soldiers' Grove.....	Bear Creek .....	2,500
	Johnson Creek .....	2,500
		35,000

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1893—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>DANE COUNTY—</b>		
Albert Johnson, Black Earth.....	Big Spring Creek.....	2,500
Geo. Thatcher, Black Earth.....	Olman's Creek.....	5,000
T. J. Hughes, Black Earth.....	Erlic Creek.....	5,000
M. D. Perkins, Belleville.....	Milem Creek.....	5,000
	Lyle Creek.....	2,500
	Howe Creek.....	2,500
	Stony-town Creek.....	5,000
		27,500
<b>DOUGLAS COUNTY—</b>		
N. Lucius, Jr., Solon Springs.....	Brule River.....	5,000
E. J. Favell, West Superior.....	Copper Creek.....	5,000
William J. Conness, Brule.....	Sandy Run.....	15,000
M. P. Nugent, Brule.....	Lucy Run.....	17,500
C. T. Campbell, Brule.....	Little Brule River.....	17,500
		60,000
<b>DUNN COUNTY—</b>		
Ole Thompson, Menomonie.....	Thorn Creek.....	2,500
	Thompson Creek.....	2,500
I. Sprague, Wheeler.....	Doohey Creek.....	5,000
		10,000
		20,000
<b>EAU CLAIRE—</b>		
Martin Stang, Eau Claire.....	Rock Creek.....	5,000
Marshall Cousins, Eau Claire.....	Elk Creek.....	5,000
A. A. Cutter, Eau Claire.....	Otter Creek.....	5,000
B. S. Phillips, Eau Claire.....	Coon Creek.....	5,000
<b>FLORENCE COUNTY—</b>		
J. T. Milks, Florence.....	La Montague Creek.....	5,000
S. T. Beattie, Florence.....	La Page Creek.....	2,500
	La Montaign Creek.....	2,500
Jas. Pontbriand, Florence.....	Fisher Creek.....	5,000
C. O. Allen, Florence.....	Pine River and Tributaries.....	5,000
W. W. Noyes, Florence.....	Boot-Lake Creek.....	5,000
		25,000
Harvey Durand, Fond du Lac.....	Empire Brook.....	2,500
	Byron Brook.....	2,500
Chas. F. Geisse, Fond du Lac.....	Head, Milwaukee River.....	2,500
J. J. Gromme, Fond du Lac.....	Forest Brook.....	2,500
H. W. Geisse, Fond du Lac.....	Mullett River.....	2,500
Paul J. Fritz, Fond du Lac.....	Parson's Creek.....	2,500
Saml. H. Longdin, Fond du Lac.....	Anderson Creek.....	2,500
		17,500
<b>GRANT COUNTY—</b>		
L. C. McCollum, Muscoda.....	Van Elstyas Creek.....	5,000
Dighton Waite, Muscoda.....	Miles Creek.....	5,000
John Stransky, Muscoda.....	Saw Branch.....	5,000
E. C. Bryan, Boscobel.....	Roll Branch.....	5,000
Chas. McMillan, Boscobel.....	Marietta Branch.....	5,000
A. De Voe, Boscobel.....	Sander's Creek.....	5,000
J. B. Johnson, Montfort.....	Blue River.....	5,000
D. O. Eustice, Livingstone.....	Head of Platte River.....	10,000
J. W. Beetham, Fennimore.....	Fennimore Branch.....	2,500
	Johnson Branch.....	2,500
F. N. Kern, Fennimore.....	Johnson Branch.....	5,000
J. C. Kirkpatrick, Rewey.....	Pecatonica River.....	5,000
F. B. Callis, Lancaster.....	Head of Grant River.....	12,500
		72,500



*Distribution of Fish.*

RAINBOW TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>JACKSON COUNTY—</b>		
J. B. Alward, Millston.....	Robinson Creek .....	5,000
H. A. Bates, Secherville.....	Lowe Creek .....	5,000
F. Dudley, Alma Center.....	Bovee Creek .....	10,000
		20,000
<b>JEFFERSON COUNTY—</b>		
L. H. Washburne, Palmyra.....	Aurelin Spring Brook .....	5,000
E. R. Trippe, Palmyra.....	Palmyra Spring Brook .....	5,000
		10,000
<b>JUNEAU COUNTY—</b>		
John Conway, Elroy .....	Miller's Prairie Creek .....	5,000
<b>LA CROSSE COUNTY—</b>		
Alex. Johnson, West Salem.....	McEldowney Creek .....	5,000
	Adams Valley Creek .....	5,000
O. Evenson, West Salem.....	Half-way Creek .....	5,000
Jas. McCord, La Crosse.....	Coon Creek .....	7,500
Benedict Ott, La Crosse.....	Mormon Cooley .....	7,500
Jas. J. Hogan, La Crosse.....	Fish-back Creek .....	10,000
		40,000
<b>LA FAYETTE COUNTY—</b>		
H. A. Bresee, Benton.....	Fever River .....	5,000
<b>LINCOLN COUNTY—</b>		
H. A. Atcherson, Tomahawk.....	Spring Creek .....	5,000
John P. Hughes, Tomahawk.....	Tomahawk River, above Dam	2,500
	Squaw Creek .....	5,000
	Spirit River .....	2,500
	Day and Creek .....	5,000
Alex. F. Empey, Merrill.....	Barns' Creek .....	5,000
Julius Thileman, Merrill.....	North Brch., Prairie River...	5,000
Wm. H. Flett, Merrill.....	Devil Ck. and other Streams	12,500
		40,000
<b>MARATHON COUNTY—</b>		
R. W. Pinder, Wausau.....	Head of Plover River.....	5,000
David Winton, Wausau .....	Winton Creek .....	2,500
Fred Genrich, Wausau .....	Eau Claire River .....	2,500
J. M. Smith, Wausau.....	Little Rib River.....	2,500
Chas. Winton, Wausau.....	Plover River .....	2,500
John Miller, Wausau.....	Mow Brook .....	2,500
Neal Brown, Wausau.....	Eau Claire River.....	2,500
	Big Rib River .....	5,000
C. S. Blair, Mosinee.....	Hog Creek .....	5,000
F. W. Heath, Spencer.....	Little Eau Pleine River.....	10,000
		40,000
<b>MARINETTE COUNTY—</b>		
Geo. W. Taylor, Marinette.....	North Brch., Thunder River..	5,000
	South Brch., Thunder River..	5,000
	Beaver Creek .....	10,000
John Wood, Amberg.....	Pike River .....	10,000
John Huff, Wausaukee .....	Wausaukee River .....	10,000
W. A. Brown, Marinette.....	Rat Creek .....	5,000
	Shepard Creek .....	5,000
		50,000

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>MARQUETTE COUNTY—</b>		
Samuel Stowe, Oxford.....	Neenah River .....	2,500
C. E. Pond, Westfield.....	Montello River .....	5,000
J. H. Coon, Oxford.....	Cheedle Creek .....	2,500
	Campbell Creek .....	2,500
W. J. Ogle, Oxford.....	Huber Creek .....	2,500
Hans Stalker, Oxford .....	Warden Creek .....	2,500
F. W. Kline, Westfield.....	Carman Creek .....	2,500
Julius Warnke, Westfield.....	Duck Creek .....	2,500
H. E. Stalker, Oxford.....	Crooked Creek .....	2,500
Meinke & Behn, Westfield.....	Duck Creek .....	5,000
		30,000
<b>MONROE COUNTY—</b>		
Saml. Sloggy, Ontario .....	Brusk Creek .....	2,500
	Billing's Creek .....	2,500
	Brey Creek .....	2,500
	Cook Creek .....	2,500
Melvin Lawton, Warrens.....	Sand Creek .....	2,500
	Wymon Creek .....	2,500
L. L. Gillette, Warrens.....	Whiskey Creek .....	5,000
C. H. Campbell, Cashton.....	Taylor Creek .....	2,500
	Brush Creek .....	2,500
		25,000
<b>ONEIDA COUNTY—</b>		
O. W. Sayner, Minocqua.....	Bass Lake .....	5,000
C. C. Yawkey, Hazlehurst.....	Lake Alice .....	5,000
		10,000
<b>PIERCE COUNTY—</b>		
C. W. Groot, Elmwood.....	Cady Creek .....	2,500
J. F. Lampert, Elmwood.....	Cady Creek .....	2,500
E. Holcomb, Spring Valley.....	San Gallo River .....	2,500
S. J. Fox, Spring Valley.....	Johnson Creek .....	2,500
G. S. Fox, Spring Valley.....	Gilbert Creek .....	2,500
B. F. Rastad, Spring Valley.....	Lousey Creek .....	2,500
C. E. Cox, Spring Valley.....	Gilbert Creek .....	2,500
W. S. Cheeney, Rock Elm.....	Little Missouri .....	5,000
D. W. Dutcher, Rock Elm.....	Rush River .....	5,000
A. O. Belfanz, Rock Elm.....	Little Missouri .....	5,000
		32,500
<b>POLK COUNTY—</b>		
Albert Rosenbush, Turtle Lake.....	Beaver Brook .....	2,500
	Spring Brook .....	2,500
		5,000
<b>PORTAGE COUNTY—</b>		
Geo. L. Strong, Bancroft.....	Duck Creek .....	5,000
A. C. Wilson, Amherst.....	To-morrow River .....	5,000
Jacob Childs, Amherst.....	To-morrow River .....	2,500
Benjamin Flemming, Amherst.....	Een Creek .....	5,000
		17,500
<b>RICHLAND COUNTY—</b>		
A. J. Dickerson, Lone Rock.....	Calahan Creek .....	2,500
Chas. Bowley, Lone Rock.....	Carl Creek .....	2,500
M. D. Elliot, Lone Rock.....	Weitzel Creek .....	2,500
H. W. Haskell, Sr., Lone Rock.....	Martell Creek .....	2,500
J. L. Hodson, Lone Rock.....	Norwegan Creek .....	2,500

*Distribution of Fish.*

## •RAINBOW TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>RICHLAND COUNTY—Continued.</b>		
Aug. Scheele, Lone Rock.....	Tennant Creek .....	2,500
O. F. Taylor, Lone Rock.....	Meyer's Creek .....	2,500
M. S. Bowler, Richland Center.....	Willow Creek .....	5,000
C. E. Jaquish, Neptune.....	Tributary, Willow Creek.....	5,000
J. W. Ferguson, Woodstock.....	Ferguson Creek .....	5,000
		32,500
<b>ST. CROIX COUNTY—</b>		
L. G. Greene, Hudson.....	Willow River .....	5,000
Dr. S. L. Pickett, Wilson.....	Gilbert Creek .....	2,500
	Beaver Creek .....	2,500
		10,000
<b>SAUK COUNTY—</b>		
J. E. Morgan, Spring Green.....	Sneed Creek .....	5,000
	Howey Creek .....	2,500
S. P. George, Spring Green.....	Wilson Creek .....	2,500
D. W. Morgan, Spring Green.....	Needham Creek .....	2,500
Barney Pronald, Spring Green.....	Sugar Grove Creek .....	2,500
H. M. Acott, Baraboo.....	Baxter Creek .....	5,000
J. W. Davis, Baraboo.....	Helm's Creek .....	2,500
	Martin Creek .....	2,500
H. D. Potter, Baraboo.....	Pine Creek .....	2,500
A. Coleman, Reedsburg .....	Powers' Creek .....	2,500
	Behn Creek .....	2,500
W. E. Gosch, Reedsburg.....	Copper Creek .....	2,500
H. C. Hunt, Reedsburg.....	Twin Creek .....	5,000
R. P. Perry, Reedsburg.....	Winnie Creek .....	5,000
J. E. Morgan, Spring Green.....	Wyoming Creek .....	2,500
	Branch of Bear Creek.....	2,500
W. B. Pearl, Baraboo.....	Devil's Lake .....	37,500
		87,500
<b>SHAWANO COUNTY—</b>		
P. A. Holm, Tigerton.....	Delaglies Creek .....	5,000
J. Lehman & Son, Tigerton.....	Tiger Creek .....	5,000
		10,000
<b>TREMPEALEAU COUNTY—</b>		
E. A. Olson, Osseo.....	Beef River .....	5,000
Wm. McKivergin, Blair.....	Trempealeau River .....	5,000
Simon Bergsing, Blair.....	Blair Mill Pond .....	5,000
O. P. Christianson, Whitehall.....	Spring Valley Creek .....	5,000
H. E. Simpson, Arcadia.....	Trout Run .....	5,000
		25,000
<b>VERNON COUNTY—</b>		
Robt. Hammer, Hillsboro.....	Branch of Baraboo River.....	5,000
	Hohlfeldt Creek .....	2,500
	Heelling Creek .....	2,500
	Langor Creek .....	2,500
F. M. Minshall, Viroqua .....	Bishop Branch .....	2,500
	Harrison Branch .....	2,500
C. J. Skough, Westby.....	West Brch., Kickapoo River..	5,000
	Spring Cooley Creek .....	5,000
Frank S. Mott, Viroqua.....	McGraw Creek .....	5,000
		32,000

*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>VILAS COUNTY—</b>		
D. H. Sargent, Conover .....	Muskrat Creek .....	2,500
Harvey Rowell, State Line .....	Seven-mile Creek .....	2,500
A. McKenzie, Eagle River .....	Iron Run .....	5,000
W. J. Walsh, Eagle River .....	Deerskin Creek .....	5,000
Salsich and Wilson, Star Lake .....	Skling Creek .....	5,000
	Plum Creek .....	5,000
	Lost Creek .....	5,000
		30,000
<b>WALWORTH COUNTY—</b>		
A. B. Alrick, Whitewater .....	Bluff Creek .....	2,500
H. M. Trippe, Whitewater .....	Gould Creek .....	2,500
Ed. Engleretsend, Whitewater .....	Brodway Creek .....	2,500
Chas. S. Weeks, Whitewater .....	Steeles Creek .....	2,500
	Big-spring Creek .....	2,500
	Tiger Creek .....	2,500
	Island Creek .....	2,500
	Territorial Creek .....	2,500
		20,000
<b>WASHBURN COUNTY—</b>		
J. W. Harmon, Spooner .....	Beaver Brook .....	5,000
<b>WASHINGTON COUNTY—</b>		
Henry B. Kaempfer, West Bend .....	Silver Creek .....	5,000
<b>WAUKESHA COUNTY—</b>		
W. H. Farmer, Eagle .....	Kilts Springs .....	5,000
H. Bowman, Genesee .....	Spring Lake Brook .....	5,000
H. Husten, Eagle .....	Husten's Lake .....	5,000
T. H. Carlin, North Prairie .....	Supernong Creek .....	5,000
Wm. H. Tuohy, Eagle .....	Andorfer's Spring .....	5,000
R. H. Hunkins, Waukesha .....	Spring Lake .....	5,000
C. D. Van Brunt, Dousman .....	Koch's Lake .....	12,500
		40,000
<b>WAUPACA COUNTY—</b>		
Ole C. Sether, Scandinavia .....	Spaulding Creek .....	2,500
J. E. Phillips, Iola .....	Paulson Creek .....	2,500
C. F. Taylor, Iola .....	Hanson Creek .....	5,000
Chas. H. Bowers, Sheridan .....	Taylor Creek .....	2,500
Thos. Morgan, Sheridan .....	Nordy Springs .....	2,500
Oliver Olsson, Sheridan .....	Peterson Creek .....	2,500
Saml. Torgerson, Sheridan .....	Morgan Creek .....	2,500
H. Olsson, Waupaca .....	Silver Creek .....	2,500
E. E. Chamberlain, Waupaca .....	Headland Creek .....	2,500
Guy Mumbroe, Cedar Lake .....	Steadman Creek .....	2,500
Enor Lynch, Crystal Lake .....	Pearl Creek .....	2,500
M. Ryan, Scandinavia .....	Emmons Creek .....	2,500
Jas. H. Anderson, Ogdensburg .....	Tributaries to Perry Creek .....	5,000
M. S. Stroud, Symco .....	Crystal Creek .....	2,500
C. H. Anderson, Scandinavia .....	Cedar Creek .....	2,500
Campbell and Cameron, Oshkosh .....	Streams in Townships of Scandinavia and Lawrence .....	5,000
J. E. Lehr, Clintonville .....	Knudson Creek .....	5,000
P. Stinson, Clintonville .....	Shaw Creek .....	2,500
Otto Voelz, Leopolls .....	Lovell Creek .....	2,500
	Southwest Brch., Little Wolf .....	5,000
	Whitcomb Creek .....	5,000
	Spring Brook .....	5,000
	Hyde Creek .....	5,000
	West Brch, Embarrass River .....	5,000



*Distribution of Fish.*

## RAINBOW TROUT DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>WAUPACA COUNTY—Continued.</b>		
Chas. E. Johnson, Marble .....	Shaw Creek .....	5,000
H. F. Folkman, Clintonville.....	Smith Brook .....	2,500
C. F. Folkman, Clintonville.....	North Brch., Pigeon River...	2,500
W. B. Jeffers, Sheridan.....	Tributary to Waupaca River..	2,500
		95,000
<b>WAUSHARA COUNTY—</b>		
L. F. Bishop, Coloma Station .....	Runnels Creek .....	2,500
Lewie Smith, Coloma Station.....	Hesler Creek .....	2,500
J. R. McLaughlin, Coloma Station...	Challan Creek .....	2,500
A. O. Borst, Richford.....	Mecan River .....	5,000
W. H. Piers, Stevens Point.....	Chaffee Creek .....	5,000
		17,500
<b>WOOD COUNTY—</b>		
Severe A. Voyer, Centralia.....	Chester Creek .....	5,000
C. Lyon, Centralia .....	Railroad Creek .....	5,000
Reuben Lyon, Centralia .....	Moccasin Creek .....	2,500
Chas. Briere, Centralia .....	Three-mile Creek .....	2,500
H. C. Trimm, Centralia.....	Bloody Run .....	2,500
E. A. Benson, Vesper.....	Hemlock Creek .....	5,000
		22,500
Total distribution, 1898.....		1,155,000

*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION—1898.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>ADAMS COUNTY—</b>		
Jesse Kent, Strong's Prairie.....	Big Slough .....	150,000
<b>ASHLAND COUNTY—</b>		
Andrew Jacobsen, Glidden.....	Dryden Lake .....	150,000
<b>BARRON COUNTY—</b>		
T. W. Borum, Barron.....	Poskin Lake .....	200,000
E. W. Kingsbury, Perley.....	Horse-shoe Lake .....	200,000
Andrew Ryan, Shell Lake.....	Shell Lake .....	500,000
L. H. Meade, Shell Lake.....	Shell Lake .....	500,000
W. B. Curtis, Shell Lake.....	Shell Lake .....	250,000
Ole Wang, Shell Lake .....	Shell Lake .....	250,000
		1,900,000
<b>BAYFIELD COUNTY—</b>		
David Archibald, Cable .....	Long Lake .....	100,000
Frank Hammill, Cable.....	Bass Lake .....	100,000
John Brady, Iron River .....	Iron Lake .....	150,000
H. H. Augusta, Iron River .....	Spider Lake .....	100,000
	Moon Lake .....	50,000
C. C. Williams, Iron River.....	Muscalonge Lake .....	150,000
Frank Hammill, Cable.....	Bass Lake .....	500,000
David Archibald, Cable.....	Long Lake .....	500,000
Samuel Bally, Bayfield.....	Siskowit Lake .....	900,000
Henry Sykes, Bayfield.....	Planted in Chequamegon Bay.	2,880,000
		5,430,000
<b>CALUMET COUNTY—</b>		
Jos. Wolfinger, Dundas .....	Woodville Lake .....	150,000
<b>CHIPPEWA COUNTY—</b>		
C. P. Parker, Chippewa Falls.....	Conwell Lake .....	150,000
S. R. Kaiser, Cadott .....	Pike Lake .....	150,000
L. G. Chasman, Stanley .....	Brown's Lake .....	150,000
Robt. Hunter, Eagleton .....	Camel Lake .....	100,000
C. A. Stanley, Chippewa Falls .....	Popple Lake .....	200,000
C. W. Bronsky, Bruce.....	Amacoy Lake .....	100,000
C. A. Greene, Appolonia.....	Deer Lake .....	100,000
G. M. Chamberlain, Bruce .....	Island Lake .....	100,000
		1,050,000
<b>COLUMBIA COUNTY—</b>		
T. L. Purves, Wyocena .....	Wyocena Mill Pond .....	150,000
Weber and Hurd, Fall River .....	Fall River Dam .....	150,000
Rockafellow and Son, Fall River.....	North Brch., Crawfish River	150,000
		450,000
<b>DANE COUNTY—</b>		
Wm. R. Bagley, Madison.....	Monona Lake .....	450,000
Saml. Higham, Madison .....	Monona Lake .....	200,000
M. C. Clarke, Madison .....	Mendota Lake .....	700,000
O. C. Vaughn, Jefferson .....	Lake Ripley .....	375,000
H. G. Goodlad, Black Earth .....	Black Earth Pond .....	150,000
H. H. Willard, Mazomanie .....	Lake Marion .....	200,000
		2,325,000

*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>DODGE COUNTY—</b>		
G. Stolz, Beaver Dam .....	Beaver Dam Lake .....	150,000
H. A. Schluckebier, Beaver Dam.....	Beaver Dam Lake .....	300,000
D. J. Hotchkiss, Fox Lake .....	Fox Lake .....	300,000
John Stoddart, Fox Lake .....	Fox Lake .....	300,000
		1,050,000
<b>DOOR COUNTY—</b>		
H. Overbeck, Jr., Sturgeon Bay.....	Clark's Lake .....	375,000
	Kankaroo Lake .....	375,000
		750,000
<b>DOUGLAS COUNTY—</b>		
Rudolph Kriede, Gordon .....	Gartke Lake .....	100,000
<b>FOND DU LAC COUNTY—</b>		
Frank Beau, Calvary .....	Wolf Lake .....	150,000
Peter McGalloway, Dotyville.....	Lake Wolf .....	150,000
Steffes Bros., Wolf Lake .....	Wolf Lake .....	150,000
		450,000
<b>GRANT COUNTY—</b>		
L. C. McCullum, Muscoda.....	Kendal Lake .....	150,000
<b>GREEN LAKE COUNTY—</b>		
Matt. Whitney, Berlin .....	Silver Lake .....	150,000
	Crystal Lake .....	150,000
H. R. McCullough, Chicago.....	Green Lake .....	375,000
C. P. Hazeltine, Dartford .....	Green Lake .....	375,000
		1,050,000
<b>IRON COUNTY—</b>		
Jos. Odgers, Mercer .....	Mercer Lake .....	250,000
	Jim Lake .....	150,000
	Martha Lake .....	100,000
		500,000
<b>JACKSON COUNTY—</b>		
L. T. Branch, Sechlerville .....	Sechler's Mill Pond .....	150,000
<b>JEFFERSON COUNTY</b>		
H. C. Christians, Johnson Creek.....	Golden Lake .....	375,000
<b>KENOSHA COUNTY—</b>		
Peter Steinbach, Kenosha .....	Hooker Lake .....	375,000
F. H. Schenning, Silver Lake .....	Silver Lake .....	750,000
		1,125,000
<b>KEWAUNEE COUNTY—</b>		
D. W. Stebbins, Ahnapee .....	Seidl Lake .....	375,000
Geo. M. Mashek, Kewaunee .....	Kewaunee River above Dam..	300,000
		675,000
<b>LA CROSSE COUNTY—</b>		
A. J. Patterson, North Bend.....	North Bend Lake .....	150,000
<b>LA FAYETTE COUNTY—</b>		
S. N. Briggs, South Wayne .....	Pecatonica River .....	150,000
E. P. Drake, South Wayne.....	Pecatonica River .....	150,000
		300,000

*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION, 1898—Continued.

Name and Address * of Applicant.	Where Planted.	No. of Fish.
<b>LANGLADE COUNTY—</b>		
Geo. Bremer, Summit Lake.....	Summit Lake .....	150,000
H. A. Muller, Polar .....	Weirshke's Lake .....	150,000
C. W. Maney, Elcho.....	Post Lake .....	150,000
		450,000
<b>LINCOLN COUNTY—</b>		
O. F. Headstream, Tomahawk.....	Clear Lake .....	150,000
	Long Lake .....	150,000
H. A. Atcherson, Tomahawk.....	Mirror Lake .....	150,000
Howen & Flemming, Tomahawk .....	Clear Lake .....	150,000
John P. Hughes, Tomahawk .....	Tomahawk Lake .....	300,000
W. H. Flett, Merrill .....	Lake View .....	600,000
		1,500,000
<b>MARATHON COUNTY—</b>		
A. H. Wilson, Norrie .....	Mayflower Lake .....	150,000
<b>MARINETTE COUNTY—</b>		
W. A. Brown, Marinette .....	Eagle Lake .....	300,000
	Mary Lake .....	300,000
	Julia Lake .....	150,000
Geo. W. Taylor, Marinette .....	Noquebay Lake .....	750,000
C. A. Budlong, Amberg .....	Beecher Lake .....	300,000
		1,800,000
<b>MARQUETTE COUNTY—</b>		
Thos. Wells, Jr., Neshkoro.....	Mill Pond on White River....	150,000
F. C. Miller, Westfield .....	Pleasant Lake .....	150,000
G. A. Crawford, Westfield.....	Wood Lake .....	150,000
Frank J. Collins, Montello .....	Collin's Lake .....	150,000
J. R. Vroman, Oxford .....	Goose Lake .....	150,000
J. B. Wright, Oxford .....	Manter Lake .....	150,000
Emil Fritz, Westfield .....	Lawrence Mill Pond.....	150,000
O. K. Horn, Stevens Point.....	Wood Lake .....	300,000
Wm. Guderjahn, Liberty Bluff.....	Wood Lake .....	300,000
		1,650,000
<b>MONROE COUNTY—</b>		
F. L. French, Sparta.....	Pike Lake .....	150,000
<b>OCONTO COUNTY—</b>		
C. S. Hart, Oconto.....	Kelly Lake .....	300,000
<b>ONEIDA COUNTY—</b>		
L. A. Harrison, Harshaw.....	Lake Claire .....	150,000
C. C. Yawkey, Hazlehurst .....	Kaubeschien Lake .....	300,000
John Davelin, Fraut Junction.....	Sugar Camp Lake .....	150,000
Fred Tripp, Rhinelander.....	Post Lake .....	150,000
F. A. Hildebrand, Rhinelander.....	Hildebrand Lake .....	150,000
Jas. E. Wood, Woodboro.....	Lake Jenny .....	150,000
		1,050,000
<b>OZAUKEE COUNTY—</b>		
William Weber, Grafton.....	Milwaukee River .....	300,000
P. J. Kroehnke, Thiensville.....	Milwaukee River .....	300,000
Wm. H. Horn, Cedarburg.....	Milwaukee River .....	300,000
		900,000



*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>POLK COUNTY—</b>		
S. M. De Goller, Richardson.....	Lake Wagner .....	200,000
Albert Rosenbush, Turtle Lake.....	Horse-shoe Lake .....	150,000
	Little Round Lake .....	150,000
William Wilson, Amery.....	Pike Lake .....	100,000
H. A. Holliday, Amery.....	North Twin Lake .....	100,000
Lars Anderson, Amery.....	Palmer Lake .....	100,000
J. F. Snyder, Amery.....	Pike Lake .....	100,000
C. S. Rimpert, Osceola Mills.....	Round Lake .....	100,000
E. A. Schrain, Osceola Mills .....	Sand Lake .....	100,000
		1,100,000
<b>PORTAGE COUNTY—</b>		
M. S. Murat, Amherst Junction.....	Lake Emily .....	375,000
P. N. Peterson, Amherst.....	Lime Lake .....	150,000
O. L. Gordon, Nelsonville.....	Nelson's Mill Pond.....	150,000
J. N. Ranbeck, Peru.....	Reedsberg Lake .....	150,000
John Een, Amherst.....	Ebert Lake .....	150,000
B. B. Park, Stevens Point.....	Wisconsin River .....	150,000
A. T. Bacon, Stevens Point.....	Wisconsin River .....	150,000
G. O. Gulikson, Nelsonville.....	Nelson's Mill Pond.....	150,000
F. H. Young, Lone Pine.....	Wolf Lake .....	150,000
		1,575,000
<b>PRICE COUNTY—</b>		
Hugh Boyd, Ffield.....	Bass Lake .....	150,000
Magnus Pearson, Ogema.....	Spirit River Lake .....	150,000
		300,000
<b>RACINE COUNTY—</b>		
Waller & Gittings, Burlington.....	Brown's Lake .....	375,000
<b>RICHLAND COUNTY—</b>		
H. W. Haskell, Sr., Lone Rock.....	Harter Mill Pond.....	150,000
J. H. Sumner, Lone Rock.....	Smith's Lake .....	150,000
		300,000
<b>ROCK COUNTY—</b>		
Richard Valentine, Janesville.....	Rock River .....	300,000
A. E. Rich, Janesville.....	Rock River .....	300,000
		600,000
<b>ST. CROIX COUNTY—</b>		
L. G. Greene, Hudson.....	Bass Lake .....	200,000
<b>SAUK COUNTY—</b>		
Frank Ramsdale, Madison.....	Planted in Devil's Lake.....	375,000
C. F. Wolfenden, Wonevoo.....	Baraboo River .....	300,000
R. M. Mathews, Ironton.....	Beeson's Mill Pond.....	150,000
		825,000
<b>SAWYER COUNTY—</b>		
H. B. Shue, Hayward.....	"T" Lake .....	250,000
<b>SHAWANO COUNTY—</b>		
O. A. Risum, Pulcifer.....	Shawano Lake .....	150,000
Rustic Resort Co., Embarrass.....	Round Lake .....	150,000
	Pine Lake .....	150,000
J. A. Adams, Embarrass.....	Grass Lake .....	150,000
E. M. Wescott, Shawano.....	Red River .....	150,000
D. E. Wescott, Shawano.....	Main Wolf River .....	150,000
	Shawano Lake .....	300,000
		1,200,000

*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>SHEBOYGAN COUNTY—</b>		
R. G. Arnold, Glenbeulah.....	Mullett River .....	150,000
Floyd B. Hesler, Glenbeulah.....	Cedar Lake .....	150,000
G. Lammers, Cedar Grove.....	Onion River .....	150,000
Simon Dohmier, Franklin.....	Herman Lake .....	150,000
J. C. Schmidler, Decada.....	Grahser's Lake .....	300,000
		900,000
<b>TAYLOR COUNTY—</b>		
C. B. Powell, Medford.....	Nigger Lake .....	150,000
Fred Myres, Prentice.....	Worcester Lake .....	150,000
		300,000
<b>TREMPEALEAU COUNTY—</b>		
L. L. Odell, Galesville.....	Galesville Mill Pond.....	150,000
F. G. Davis, Galesville.....	Galesville Pond .....	150,000
Jas. P. Mallory, Whitehall.....	Michael's Creek .....	150,000
P. L. Solberg, Whitehall.....	Jacobson Creek .....	150,000
H. E. Simpson, Arcadia.....	Horse-shoe slough .....	150,000
S. E. Bergsing, Blair.....	Trempealeau River .....	150,000
		900,000
<b>VILAS COUNTY—</b>		
Oscar Hill, Minocqua.....	Hill Lake .....	150,000
O. W. Sayner, Minocqua.....	Plum Lake .....	225,000
Harvey Selleck, Minocqua.....	Tomahawk Lakes .....	150,000
Salsich & Wilson, Star Lake.....	Star Lake .....	300,000
Albert Doolittle, Woodruff.....	Dramond Lake .....	225,000
Patrick Brazel, Woodruff.....	Spider Lake .....	150,000
C. J. Coon, Woodruff.....	Trout Lake .....	150,000
John B. Mann, Woodruff.....	Trout Lake .....	150,000
Bent Brothers, State Line.....	Black Oak Lake .....	225,000
	Hardie Lake .....	150,000
Harvey Rowell, State Line.....	Merrill Lake .....	150,000
	Goose Lake .....	75,000
Henry Howlett, Conover.....	Lake (no name) .....	150,000
A. McKenzie, Eagle River.....	Big Bass Lake .....	225,000
Fred Morey, Eagle River.....	Cranberry Lake .....	150,000
D. E. Riordan, Eagle River.....	Gordon Lake .....	375,000
		3,000,000
<b>WALWORTH COUNTY—</b>		
Frank L. Frazer, Lake Beulah.....	Lake Beulah .....	225,000
	Potter's Lake .....	225,000
F. F. Southr, Caldwell.....	Potter's Lake .....	150,000
B. F. Food, Waterford.....	Tichigan Lake .....	150,000
William Arnold, Sharon.....	Turtle Creek .....	300,000
J. C. Reynolds, Lake Geneva.....	Lake Geneva .....	450,000
Frank S. Moore, Lake Geneva.....	Lake Geneva .....	300,000
		1,800,000
<b>WASHINGTON COUNTY—</b>		
S. F. Mayer, West Bend.....	Cedar Lake .....	300,000
M. Wilson, Hartford.....	Wilson's Lake .....	450,000
John Rosenheimer, Schleisingsville..	Big Cedar Lake .....	375,000
	Little Cedar Lake .....	375,000
Geo. Reilly, Lake Five.....	Lake Five .....	150,000
		1,650,000

*Distribution of Fish.*

## WALL-EYED PIKE DISTRIBUTION, 1898—Continued.

Name and Address of Applicant.	Where Planted.	No. of Fish.
<b>WAUKESHA COUNTY—</b>		
C. A. Buskirk, Okauchee.....	Oconomowoc Lake .....	300,000
O. K. Mann, Oconomowoc.....	Nemadbin Lake .....	450,000
Frank P. Ziegler, Milwaukee.....	Denoon Lake .....	450,000
A. Melcher, Okauchee .....	Okauchee Lake .....	150,000
John C. Koch, Milwaukee.....	Pine Lake .....	300,000
L. Maschouer, Nashotah .....	Okauchee Lake .....	300,000
A. C. Reitbrock, Hartland.....	Pine Lake .....	375,000
Wm. H. Tuohy, Eagle.....	Eagle Lake .....	150,000
B. J. Runwill, Hartland.....	Nagawicka Lake .....	375,000
		2,850,000
<b>WAUPACA COUNTY—</b>		
S. C. Nessling, Waupaca.....	Chain o' Lakes .....	750,000
W. L. Wilson, Springwater.....	Long Lake .....	150,000
M. Rayn, Scandinavia.....	Whitcomb Lake .....	150,000
Chas. H. Anderson, Scandinavia.....	Silver Lake .....	150,000
M. S. Stroud, Symco.....	Little Wolf River .....	150,000
J. E. Phillips, Iola.....	Iola Mill Pond .....	150,000
J. J. Hangartner, Marion.....	Hopkin's Lake .....	150,000
Theo. Buettner, Caroline.....	Embarrass River .....	150,000
M. W. Stinemates, Crystal Lake.....	Pine Lake .....	150,000
	Sand-bar Lake .....	150,000
		2,100,000
<b>WAUSHARA COUNTY—</b>		
Chas. Tice, Terrill .....	Pearl Lake .....	300,000
W. A. Hugh, Wautoma.....	White River .....	300,000
G. N. Spaulding, Hancock.....	Fish Lake .....	300,000
J. W. Gray, Hancock.....	Deer Lake .....	300,000
W. C. Wiley, Hancock.....	Fish Lake .....	150,000
W. H. Campfield, Hancock.....	Pine Lake .....	150,000
L. W. Beach, Hancock.....	Hancock Lake .....	150,000
M. A. Fuller, Hancock.....	Hancock Lake .....	150,000
F. M. Smith, Coloma.....	Pleasant Lake .....	150,000
		1,950,000
<b>WINNEBAGO COUNTY—</b>		
John Maag, Oshkosh.....	Planted in Lake Winnebago .....	4,375,000
<b>WOOD COUNTY—</b>		
T. E. Nash, Nekoosa.....	Wisconsin River .....	150,000
W. W. Meade, Centralia.....	Centralia Mill Pond .....	150,000
Jas. Bogoger, Centralia.....	Wisconsin River .....	150,000
Geo. L. Williams, Centralia.....	Wisconsin River .....	150,000
Geo. M. Huntington, Grand Rapids..	Wisconsin River .....	150,000
M. Curtin, Grand Rapids.....	Wisconsin River .....	150,000
L. M. Nash, Centralia.....	Mill Creek .....	150,000
		1,050,000
Total distribution, 1898.....		53,980,000

*Distribution of Fish.*

## LAKE TROUT DISTRIBUTION, 1897.

Where Planted.	No. of Fish.
Off from Milwaukee .....	360,000
Off from Ahnapee .....	210,000
Noquebay Lake, Marinette County .....	225,000
Long Lake, Washburn County .....	180,000
Hammil Lake, Bayfield County .....	60,000
Chain O'Lakes, Waupaca County .....	240,000
Green Lake, Green Lake County .....	240,000
Lake Mendota, Dane County .....	360,000
Shell Lake, Washburn County .....	180,000
Mud Lake, Washburn County .....	18,000
Bass Lake, Bayfield County .....	12,000
Long Lake, Bayfield County .....	60,000
Cable Lake, Bayfield County .....	60,000
Whitefish Lake, Douglas County .....	120,000
Wood Lake, Shawano County (Fingerlings) .....	10,000
Chequamegon Bay .....	7,675,000
Total distribution, 1897 .....	10,010,000

## LAKE TROUT DISTRIBUTION, 1898.

Where Planted.	No. of Fish.
Off from Milwaukee .....	153,000
Off from Two Rivers .....	153,000
Off from Kenosha .....	153,000
Off from Port Washington .....	153,000
Off from Algoma .....	153,000
Off from Sheboygan .....	153,000
Off from Sturgeon Bay .....	153,000
Chain O'Lakes, Waupaca County .....	153,000
Wanby Lake, Oconto County .....	153,000
Shell Lake, Washburn County .....	153,000
Lake Monona, Dane County .....	150,000
Chequamegon Bay .....	5,832,000
Total distribution, 1898 .....	7,512,000



*Distribution of Fish.*

## WHITEFISH DISTRIBUTION, 1897.

Where Planted.	No. of Fish.
Off from Big Sturgeon, Sturgeon Bay.....	2,000,000
Off from Squaw Island, Little Sturgeon.....	4,000,000
Off from Green Island, Lake Michigan.....	2,000,000
In Whitefish Bay, Lake Michigan.....	2,000,000
In Chequamegon Bay, Lake Superior.....	8,000,000
Total for 1897 .....	18,000,000

## WHITEFISH DISTRIBUTION, 1898.

Where Planted.	No. of Fish.
In Chequamegon Bay, Lake Superior.....	3,000,000

## BLACK BASS DISTRIBUTION, 1897.

Where Planted.	No. of Fish.
Wood Lake, Marquette County.....	2,300
Berry Lake, Shawano County .....	2,200
Total distribution, 1897 .....	4,500

6 Fish.

*Distribution of Fish.*

## BLACK BASS DISTRIBUTION, 1898.

Where Planted.	No. of Fish.
Rock Lake, Jefferson County .....	10,000
Tug Lake, Lincoln County .....	4,000
Lake View, Lincoln County .....	6,400
Clark's Lake, Door County .....	3,000
Kangaroo Lake, Door County .....	2,900
Seidl Lake, Kewaunee County .....	2,500
Grimm Lake, Kewaunee County .....	2,000
Oconomowoc Lake, Waukesha County .....	8,200
Devil's Lake, Sauk County .....	10,000
Delavan Lake, Walworth County .....	9,600
Milwaukee River, Milwaukee County .....	6,800
Elkhart Lake, Sheboygan County .....	10,200
Pike Lake, Washington County .....	2,600
Cedar Lake, Washington County .....	5,000
Mirror Lake, Sauk County .....	8,000
Moose Lake, Waukesha County .....	7,000
Lake Mendota, Dane County .....	7,000
Chain O'Lakes, Waupaca County .....	2,000
Lake Emily, Portage County .....	5,000
Total distribution, 1898 .....	112,200

## WHITE BASS DISTRIBUTION, 1897.

Where Planted.	No. of Fish.
Fox Lake, Dodge County .....	450
LaBelle Lake, Waukesha County .....	300
Oconomowoc Lake, Waukesha County .....	300
Okauchee Lake, Waukesha County .....	600
Pine Lake, Waukesha County .....	625
Green Lake, Green Lake County .....	450
Pine Lake, Waukesha County .....	350
Forest Lake, Waukesha County .....	200
Cedar Lake, Washington County .....	450
Swan Lake, Columbia County .....	340
Okauchee Lake, Waukesha County .....	600
Silver Lake, Waukesha County .....	200
La Belle Lake, Waukesha County .....	100
Oconomowoc Lake, Waukesha County .....	250
Pike Lake, Washington County .....	250
Lauderdale Lakes, Walworth County .....	650
Green Lake, Green Lake County .....	300
Delavan Lake, Walworth County .....	700
Lake Geneva, Walworth County .....	650
Elkhart Lake, Sheboygan County .....	650
Devil's Lake, Sauk County .....	700
Total distribution, 1897 .....	9,115

*Distribution of Fish.*

## DISTRIBUTION OF WHITE BASS, 1898.

May 3.	Planted in	Oconomowoc Lake, Waukesha County.....	500
May 4.		La Belle Lake, Waukesha County.....	500
May 4.		Chain O'Lakes, Waupaca County.....	225
May 4.		Cedar Lake, Washington County.....	350
May 5.		Fox Lake, Dodge County.....	500
May 5.		Devil's Lake, Sauk County.....	500
May 6.		Lake Beulah, Walworth County.....	500
May 7.		Lake De Nevu, Fond du Lac County.....	500
May 7.		Green Lake, Green Lake County.....	550
May 7.		Oconomowoc Lake, Waukesha County.....	500
May 9.		Nemahbin Lake, Waukesha County.....	500
May 9.		Pewaukee Lake, Waukesha County.....	500
May 9.		Shawano Lake, Shawano County.....	550
May 10.		Cedar Lake, Washington County.....	500
May 10.		Pike Lake, Washington County.....	500
May 10.		Rock Lake, Jefferson County.....	495
May 11.		Chain O'Lakes, Waupaca County.....	500
May 11.		Okauchee Lake, Waukesha County.....	600
May 11.		Lake Ripley, Dane County.....	550
May 12.		Brown's Lake, Racine County.....	600
May 12.		Nagawicka Lake, Waukesha County.....	300
May 12.		Pine Lake, Waukesha County.....	300
May 12.		Golden Lake, Jefferson County.....	525
May 13.		Lake Emily, Portage County.....	625
May 13.		Pine Lake, Waukesha County.....	600
May 13.		Pelican Lake, Oneida County.....	500
May 14.		Pardeeville Lake, Columbia County.....	500
May 14.		West Lake, Columbia County.....	100
May 15.		Hooker Lake, Kenosha County.....	275
May 15.		Paddock's Lake, Kenosha County.....	275
May 16.		Nemahbin Lake, Waukesha County.....	500
May 17.		Noquebay Lake, Marinette County.....	625
May 17.		Nashotah Lake, Waukesha County.....	500
May 18.		Mercer Lake, Iron County.....	500
May 20.		Lake Geneva, Walworth County.....	500
May 20.		Fowler Lake, Kenosha County.....	550
May 20.		Twin Lakes, Waukesha County.....	550
May 21.		Oconomowoc Lake, Waukesha County.....	500
May 23.		Sugar River Pond, Green County.....	600
May 23.		Nagawicka Lake, Waukesha County.....	500
May 23.		Black Oak Lake, Vilas County.....	525
May 24.		Second Lake, Dane County.....	500
May 25.		Berry Lake, Oconto County.....	550
May 25.		Green Lake, Green Lake County.....	600
May 25.		Green Lake, Green Lake County.....	500
May 26.		La Belle Lake, Waukesha County.....	500
May 27.		Devil's Lake, Sauk County.....	500
May 27.		La Belle Lake, Waukesha County.....	500
			23,420

NOTE.—The white bass planted as per above statements were mature or full-grown fish, ripe for spawning.

*Distribution of Fish.*

## DISTRIBUTION OF MUSKELLUNGE FRY, 1897.

Where Planted.	No. of Fish.
Lost Lake, Sawyer County .....	200,000
Lake DeNeavu, Fond du Lac County.....	200,000
Green Lake, Green Lake County.....	700,000
Total distribution, 1897.....	1,100,000

## DISTRIBUTION BY HATCHERIES.

1897.

MADISON HATCHERY.		
Brook trout .....	1,949,000	
Rainbow trout .....	1,191,000	
		3,140,000
MILWAUKEE HATCHERY.		
Whitefish .....	18,000,000	
Wall-eyed pike .....	15,300,000	
		33,300,000
BAYFIELD HATCHERY.		
Lake trout (fry) .....	10,000,000	
Lake trout (fingerlings) .....	10,000	
Wall-eyed pike .....	8,000,000	
		18,010,000

1898.

MADISON HATCHERY.		
Brook trout .....	1,574,000	
Rainbow trout .....	1,155,000	
Lake trout .....	150,000	
		2,879,000
BAYFIELD HATCHERY.		
Brook trout .....	328,500	
Lake trout .....	7,362,000	
Wall-eyed pike .....	11,380,000	
Whitefish .....	3,000,000	
		22,070,500
OSHKOSH STATION.		
Wall-eyed pike .....		42,600,000



*Summary of Distribution—Fish Car “Badger.”*

## SUMMARY OF DISTRIBUTION, ALL KINDS, 1897 AND 1898.

	1897.	1898.
Brook trout .....	1,949,000	1,092,500
Rainbow trout .....	1,191,000	1,155,000
Lake trout (fry) .....	10,000,000	7,512,000
Lake trout (fingerlings) .....	10,000	.....
Whitefish .....	18,000,000	3,000,000
Wall-eyed pike .....	23,300,000	53,980,000
Muskellunge .....	1,100,000	.....
Black bass .....	4,500	112,200
White bass .....	9,115	23,420
Totals .....	55,563,615	67,685,120

## MILES TRAVELED BY THE FISH CAR, “BADGER”, OVER THE SEVERAL RAILWAY LINES IN WISCONSIN DURING THE YEARS 1897 AND 1898.

	1897.	1898.
C., M. & St. P. Ry.....	6,469	5,976
C. & N. W. Ry.....	5,527	7,825
C., St. P., M. & O. Ry.....	3,182	2,165
Wisconsin Central Lines .....	3,065	4,147
G. B. & W. Ry.....	296	482
C., B. & N. Ry.....	.....	706
K., G. B. & W. Ry.....	84	.....
A. & W. Ry.....	102	148
Totals .....	18,725	21,449

## MEALS SERVED ON THE FISH CAR, “BADGER”, 1897 AND 1898.

1897 .....	836	14c.
1898 .....	1,166	11.5c.

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*Report of Fish and Game Warden.*


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## REPORT OF STATE FISH AND GAME WARDEN.

*To the Honorable, the Commissioners of Fisheries:*

Gentlemen:—Pursuant to section 1498*l*, chapter 62, R. S. 1898, I beg leave to submit the following report for the past year:

Total number of arrests reported .....	614
Total number of convictions reported .....	511
Amount of fines reported .....	\$6,415.00
Number resident deer licenses issued, 1897 .....	11,479
Number resident deer licenses issued, 1898 .....	11,913
Number non-resident deer licenses issued, 1897 .....	38
Number non-resident deer licenses issued, 1898 .....	29
Received from sale of confiscated game .....	\$650.00
Number persons sent to jail for default in payment of fine .....	39
There has been destroyed, as provided by law, nets, boats, set-	
lines, and other public nuisances having an estimated value	
of .....	\$15,000.00
Upwards of 100 miles of gill nets have been seized and destroyed.	

In addition to the number of cases reported above there are several now pending.

While I have not been able to ascertain the amount of compensation paid to county wardens, I am sure the receipts from licenses, fines and sale of confiscated game will fully cover the expenses of this department.

The report of the work of this department during the past year is not as complete as desirable, owing to the failure of many local wardens to make report to this office, but the above, which is practically the work of the special deputies only, is sufficient to show that an earnest and conscientious effort has been made to enforce the fish and game laws of this state and these efforts have met with greater success than ever before.

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*Report of Fish and Game Warden.*

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## WARDEN SYSTEM.

Experience convinces me that the county warden system, if not entirely a failure, is very far from satisfactory, and if the best results are to be looked for some other system should be adopted. It is difficult if not impossible to get persons fitted for the work to accept an appointment where the compensation at the best is small and the work if properly performed requires much time. Much of the work of a faithful warden is not apparent because in a large number of the investigations necessarily made upon complaints or suspicion sufficient proof is not obtainable to warrant proceedings and the public generally is therefore unaware of the work which has been done. Many days of weary watching and waiting and much travel and exposure are necessary many times before an offender is captured or the appurtenances illegally used by him are discovered and destroyed. Again in case of local wardens the offenders are his neighbors and he dislikes to get their ill-will by causing their arrest.

The only way to have efficient service is to have a force of deputies selected because of their fitness for the work expected of them, and pay them so that they can afford to give their time and best efforts to the work. Such men can be readily found if they are paid sufficient so that they can make this work their business.

The legislature of 1897 provided for the appointment of five special deputies in this state, and the results of the work of these officials since that law took effect fully demonstrates what might be accomplished if this system was extended. As before stated the showing of the work accomplished during the past year is practically all the work of these special deputies, and fully warrants the recommendation which I earnestly make that this system be extended. A force of twenty to thirty men selected be-

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*Report of Fish and Game Warden.*

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cause of their fitness for this kind of work, and who could be sent at any time to any part of the state where their services are most needed would be worth an army of local men, as they would be removed from the influences which renders the work of the local men most unpleasant and difficult, and would be receiving sufficient compensation so that they could give their whole time and attention to their work.

Experience has shown that much can be accomplished by a stranger in a community where the local men have utterly failed in their attempts to enforce the law. I cannot too strongly urge the necessity for a larger force of special deputies as the work requires it and I know the results that will follow the adoption of this recommendation will prove its wisdom. As some counties bordering on large lakes, or which have numerous small lakes might deem it advantageous to have local wardens to assist in the work of protecting the fish in their waters I do not recommend the abolishment of the county warden system entirely, but would provide that the appointment of county wardens be left optional with the counties, their appointment to be made by some board designated by law, and that they be responsible to said board. I would only require that the results of the work of such county deputies be reported to this department either by the deputies themselves or the board to whom they report so that they may become a source of statistical information.

#### LICENSE LAW.

The deer license law enacted by the legislature of 1897, although imperfect, has been beneficial in regulating the hunting of that animal. It has been the means of giving for the first time a line upon the great army of hunters who annually engage in the chase for this animal, and it will



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*Report of Fish and Game Warden.*

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doubtless be a surprise to most people to learn that during the past two years there has been each year about 12,000 deer licenses issued in this state. The number of resident hunters is no greater than before the enactment of the license law, but owing to the heavy non-resident license fee from 3,000 to 5,000 non-resident hunters who formerly came here to hunt deer have been kept out of the state. It would seem that with such an army of hunters the deer of this state would be exterminated within a few years, but woodsmen and others in a position to know, say that they are yet plentiful. It is but reasonable to suppose, however, that if this vast army of hunters continue to pursue them annually they must decrease in number unless stringent regulations are adopted to protect them.

In another part of this report I have strongly recommended an extension of our special warden system. As the adoption of this recommendation would increase the expense of this department, I would further recommend the enactment of a general hunters' license law. For residents of the state I would suggest that this license be fixed at a sum that would not be burdensome, but which would raise sufficient revenue to meet the expenses of this department. I am fully satisfied a license of one dollar would be sufficient to raise all the money necessary to pay the operating expenses of the department under the proposed extension of the special warden force. I would therefore recommend that a resident hunter's license of one dollar be fixed for each person desiring to hunt any of the birds or animals protected by the laws of this state.

As the expense of propagating, distributing and feeding the fish and game falls upon the people of this state, it is only just to our own people that non-residents be required to pay a larger fee for a license. I would suggest that the license fee for non-residents be made not less than five dollars, or more if deemed just and proper. It should be

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*Report of Fish and Game Warden.*

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understood that this license fee applies to the hunting of game except deer, the deer license to remain as fixed by the representatives of Michigan, Minnesota, Wisconsin and other states, at one dollar for residents and twenty-five dollars for non-residents. Should these recommendations be accepted and laws enacted carrying them out the expense of the enforcement of the fish and game laws would fall where, in my opinion, it rightfully should, upon those who enjoy the pleasure of hunting and receive the direct benefits derived from the proper protection of our fish and game, and no burden would be placed upon the state in consequence of the extension of the special warden force.

#### GENERAL SUGGESTIONS.

The large number who hunt and fish in this state makes it necessary, if our fish and game are to be preserved, that great care should be taken in fixing the proper open seasons, so as to have them interfere as little as possible with the breeding, nesting and spawning seasons. I would suggest a later season for deer, as the does would then be in hiding and therefore a less number would be killed. It would also insure colder weather, so that the animals killed could be better preserved. Animals fatally wounded would be less likely to escape, only to become the prey of wolves or other wild animals, if there was snow on the ground, so they could be followed to where they fall after being shot. The number of accidents and loss of human life during the deer season, from carelessness, inexperience and the use of powerful modern firearms is a matter that should receive consideration, and, if possible, some means devised to lessen the danger.

The danger to human life from the set-gun and the practice of "shining" is so great that both should be discouraged by the severest of penalties. Both, in my opinion, should be made penitentiary offenses.

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*Report of Fish and Game Warden.*

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As the great inducement for extensive violation of our fish and game laws is the profits enjoyed from illegal acts by the sale of the fish and game, more stringent laws should be enacted governing dealers and transportation companies. To carry out these laws wardens should be clothed with as much authority as possible so that they may examine packages offered for shipment or discovered in transit which are believed to contain contraband goods. Since the enactment of the law prohibiting the shipment of feathered game out of the state numerous attempts have been made to evade the same. Shipments were made to some point near the state line to some fictitious person with the intent of having them reshipped to points outside the state. During last fall hundreds of dollars worth of game birds were thus shipped to Milwaukee. When thus shipped the game should become contraband and subject to seizure and sale by the state. No venison should be permitted under the law to be shipped outside the state except where a non-resident coupon is attached to same. The license law should provide for the cancellation of all coupons when shipments are offered. No person should be permitted to have in his possession the coupons taken from the license of another.

The open season for brook trout is in my opinion too long in this state and should be closed one month earlier. It is a very noticeable fact that notwithstanding the large number of trout fry planted annually the number of trout is steadily growing less. This is not surprising when the streams are whipped constantly by thousands of people from April to September. In this connection it might be well to consider the advisability of limiting the season for the use of artificial flies in fishing for trout. This would prevent the taking of thousands of small fish. Wisconsin with its numerous and beautiful lakes, rivers and brooks, its vast forests, expansive prairies and extended marshes

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*Report of Fish and Game Warden.*

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is the natural home of a great variety of fish, game animals and game birds, and these can be made a great source of revenue to the people of this state by the enactment of wise and practical laws looking to their preservation.

Every person who comes within our borders to hunt or fish leaves several times the value of whatever he gets in the way of fish and game with our people. It is far better to have people from outside the state come here for their fish and game than it is to ship the game to an outside market. Not, therefore, from a sentimental but from a business point of view, the subject of the preservation of our fish and game demands careful consideration. The older states of the union realize this and are putting forth every effort to improve their present conditions in this respect. It is stated on what is believed to be good authority that about three million dollars are annually left in Maine by people who are attracted there by the hunting and fishing to be had in that state. I can see no good reason why Wisconsin with all its natural resources in this direction, with proper laws to guard them, cannot be made equally as attractive and reap as great benefit from the advantages which nature has so liberally bestowed upon her.

Added to what nature has done for our state is the work of our commissioners of fisheries. Their efforts to replenish our waters have been crowned with great success, and with improved facilities they can do much more in the future. Already their earnest and successful work has attracted attention and given to them a deservedly wide reputation in their line.

To the work of fish culture might be added the breeding of game birds. Other states have taken hold of the work of hatching and planting pheasants, and are meeting with success. Private individuals in this state have demonstrated that game birds can be successfully reared here



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*Report of Fish and Game Warden.*

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and with the great abundance of natural cover to be found in all parts of Wisconsin there is no doubt but that if the matter was taken hold of in earnest its good results would soon be made apparent.

The success or failure of officials to enforce our fish and game laws depends largely upon public sentiment. All who have given this matter any attention must have discovered that there is a growing better sentiment in favor of the enactment and enforcement of wise laws looking to the preservation of our fish and game. No better evidence of this is needed than can be found in the fact that little difficulty is now met in securing convictions upon proof of guilt, where a few years ago any attempt to prosecute a case of this nature was little better than a farce. Local clubs or organizations do much to build up a healthy sentiment and assist the officials in the work of enforcing the laws and should be encouraged by all true sportsmen. The prejudice formerly existing against laws for the protection of fish and game, on the theory that they were inspired by and enacted in the interest of city sportsmen, if not entirely gone, is rapidly passing away, and with it a great handicap to the enforcement of these laws. The decision of our courts sustaining the rights of the public as against club men who have endeavored to gain a monopoly of some of the best hunting and fishing grounds, has done much to dispel this prejudice, and it will be fortunate when the desire to have wise laws enacted for the preservation of our fish and game is sufficiently strong to overcome all feelings of selfishness.

At the last session of the legislature a committee was appointed to meet with representatives from neighboring states for the purpose of securing more uniform game laws. A meeting was held in Chicago in the winter of 1898 and was attended by representatives from Illinois, Ohio, Michigan, Minnesota, North Dakota and Wisconsin.

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After a careful consideration of the subjects before it the convention selected a committee of which Senator Green of this state was made chairman, to draft a bill covering the points considered. This has been done and will be presented to the legislature at the present session. Many of its features are very important and if enacted into law will result in much good.

Respectfully submitted,

J. T. ELLARSON,  
*State Fish and Game Warden.*

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✓ ARTIFICIAL PROPAGATION VS. CLOSE SEASON FOR  
THE GREAT LAKES.

(A paper read by Superintendent Nevin at a meeting of the American Fisheries Society, at Omaha, Neb., July 22, 1898.)

In as much as some of the states have passed laws making a close season for fishing on the great lakes during the spawning season of certain kinds of fish, expecting thereby to accomplish greater results in increasing the supply of fish thus propelled to devote my paper, for the most part, to an expression of my views of the relative value of the two methods of increasing the supply of valuable food fish in those lakes. It is true that both methods may be employed in the great lakes at the same time, and perhaps with good results; but if both are employed at the same time in the same waters, if the desired increase of fish be forthcoming, the question will then arise as to which method we are to attribute the results; and in consequence it may end in the abandonment of one method for the other, and possibly in the uncertainty of the case, the abandonment of the method which has done the most to bring to us the

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desired increase of fish. For this reason it seems apropos at this time that a discussion and investigation of both methods be made here and now relative to the results which have been obtained from both methods as employed in the past at different points, together with a presentation of the arguments for and against both methods. We know something of the apparent results from both methods and we have considerable knowledge of both methods. We have the experience of practical men and the conclusions they have drawn, pro and con, which we may discuss here at this time, and thus place on the records of the American Fisheries society our views and our knowledge of these matters; which may be of benefit or at least of interest to those who take up the work of fish culture after it has passed from our hands and Old Time has applied his scythe to the line which binds us to our vocation.

Personally, I have been on the various spawning grounds of the whole chain of great lakes from the gulf of St. Lawrence to Lake Superior during the spawning seasons, and have many times watched the salmon, whitefish and wall-eyed pike spawn in their natural way; and I am convinced that but a very small percentage of the eggs so deposited are fertilized. If as large a number of eggs become impregnated, as is claimed by some people, in the natural process, I inquire, what becomes of the fish after they are hatched? When we come to take into consideration the number of eggs that each female whitefish, lake trout, or wall-eyed pike will produce, we may well make this inquiry. A four pound whitefish will produce 50,000 eggs; a six pound lake trout will produce 8,000 eggs; and a five pound wall-eyed pike will produce about 100,000 eggs.

Some years ago, I had some experience watching whitefish spawn in pens on the Detroit river. The female fish would come to the top of the water and throw her eggs whether there was a male fish in her vicinity or not. To me it seems impossible that the male fish can fertilize one egg in a million that are thrown off by the female when I know that it is absolutely

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necessary that the milt come in contact with the eggs immediately after they are thrown off by the female and while the micropyle is open to receive it; and when I consider the small amount of milt possessed by the male and the manner in which it is thrown off into a large body of water.

Another circumstance that confirms me in my belief as to the small number of eggs fertilized by the natural process is the order in which the male and female fish come on to their spawning beds. In the great lakes, the first run of fish in spawning time are males. They are followed in a few days by the females, and in taking spawn from this second run of fish, seven-tenths of the fish taken are females, and it is a difficult matter to get enough male fish to fertilize the eggs taken. It frequently occurs that pails full of eggs are thrown overboard because enough male fish cannot be procured to impregnate them. A few days after the run of females has passed off, a run of small male fish comes on. I have heard many people say that this run of male fish will impregnate the eggs of the earlier run of females. But those of us who have had experience in practical work know that the eggs cannot be fertilized after they have left the fish two hours. Then again, a large part of the eggs which become impregnated are lodged among those which are not fertilized and the fungus growth, with which all fish culturists are familiar, spreads over the mass, and the percentage that hatches must be very small.

The only way that I can suggest that will ever enable us to form an accurate idea of the number of whitefish eggs impregnated naturally is to have a diver go down on the reefs and bars just after the fish get done spawning, and gather up a few gallons of eggs which may be placed in a hatchery and the results noted.

Last fall, I spent three half days on a trout stream and examined numerous spawning beds at the time the trout were spawning in the stream. I had such apparatus as I thought necessary to obtain any eggs that might be on the beds, but we



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did not find a single egg in any nest that we examined. My purpose was to find the percentage of trout eggs impregnated by the natural process. I shall follow up this work again this fall, and hope for better results.

There are very few good trout streams in which less than one thousand trout spawn naturally each year. These trout should average at least two hundred eggs each, making two hundred thousand eggs deposited in the stream each year. If five thousand trout are hatched and come to maturity, this should certainly be enough to keep the stream well stocked with trout. But our experience teaches us that it does not matter how well a stream is stocked, if it is fished to any extent for two or three seasons, fry must be supplied from the hatcheries if it is to continue to produce good fishing.

I have done some figuring on my own account to get at the number of whitefish eggs, deposited naturally, required to produce one mature fish weighing two and one-half pounds. I have taken the whole number of pounds of whitefish caught on the chain of great lakes, i. e., Lakes Superior, Huron, Michigan, St. Claire, Georgian Bay and Lake Erie (not including fish taken from Lake Erie in Pennsylvania and Ohio waters), which in 1896 was 8,223,900 pounds. Estimating that each fish taken weighed two and one-half pounds, we find that 3,289,560 whitefish were caught. Estimating that there are left in the waters three times as many fish as are taken out, and that six-thirteenths of the fish are females, we find that there were 4,554,747 female fish producing eggs. Allowing an average of 30,000 eggs for each female, we find that 136,642,220,000 eggs were deposited naturally and produced only 3,289,560 mature fish. Thus we find that of 41,568 eggs deposited naturally, only one fish comes to maturity. Of course many things must be taken into consideration in making these estimates; and at best the estimates as well as the results obtained are barely approximate. Yet it gives us something of an idea of the vast

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number of eggs that must be deposited by the natural process to produce a single mature fish. In making these figures, no account is made of the millions of whitefish fry annually planted by the several states and the United States.

Thus, after spending twenty-five years in the work of fish culture and propagation, I cannot but conclude that an enormous loss of fish of nearly all species occurs in the egg stage, because the eggs deposited by the female are not fertilized. The result is, our streams and lakes become depleted of fish within a short time after men with modern fishing apparatus begin to take fish from the waters for food. Nature's provisions for the survival and increase of the several species of fish are not adequate. To rectify this apparent error in Nature's laws we have resorted to artificial propagation with gratifying results. That we still have much to learn in this work we all agree. But at the same time, I believe that all fish culturists and people whose knowledge of the subject qualifies them to speak intelligently of it will admit the complete success of artificial propagation with many species of fish. I refer particularly to the stocking of streams, once barren, with brook and rainbow trout; and the planting of shad in the rivers both on the Atlantic and the Pacific coasts, facts with which we are all familiar. A few years ago, shad were unknown on the Pacific coast. A few thousand fry were taken from New York state and planted there. Today, shad are as plentiful on the Pacific coast as on the Atlantic. The planting of salmon fry in the rivers of the Pacific coast has done wonders in the way of increasing the salmon. Many other species have been made to increase and multiply very rapidly.

That whitefish eggs can be hatched artificially in large numbers, there is no question; and I hold that given, suitable planting grounds on which the proper food is found in sufficient quantities, and protection to the small partly grown whitefish, there is no reason why we should not have had the same suc-

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cess in maintaining the supply of these fish as we have had with other species.

So much for artificial propagation.

Relative to the operation of laws providing for a close season on the great lakes, I call attention to the Province of Ontario, Dominion of Canada. The Province of Ontario has had a close season for the fish of the great lakes for the past twenty-five years. The fish protective laws are much more rigidly enforced on the Canadian side of the great lakes than on our side. Recently, I have gone through the several annual reports of the fisheries department of the Dominion of Canada, to find the results of their close season for twenty-five years on the catch of whitefish for the province of Ontario from Lakes Superior, Huron, Erie, St. Claire, Georgian bay and Detroit river. I have compared the catch of whitefish in the Province of Ontario with the catch in the state of Michigan, which has less coast line than Ontario and has not had a close season until this year.

From the last biennial report of the commissioners of fisheries of the state of Michigan, I learn that from the year 1885 to 1893 there was a decrease of 35 per cent. in the catch of whitefish in that state. In the Province of Ontario, bordering on the same waters, for the most part, as the state of Michigan, and where, as I have stated, they have had a close season for twenty-five years, I find that from the year 1889 down to 1896 there was a decrease of 78 per cent. in the catch of whitefish, in spite of the fact that there were 5,400 more nets used in 1896 than in 1889. In 1889, the average number pounds whitefish caught in each net was 433. In 1896, the average number of pounds per net was 125, showing a much larger per cent. of decrease in the Province of Ontario with a close season of twenty-five years standing than in the state of Michigan without a close season. I firmly believe that the reason the decrease in the catch of whitefish is much larger in Canadian waters than in the waters of the state of Michigan is, that the

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Canadian people have not planted as many whitefish fry in the above named waters as the Michigan fish commission has planted.

Last year, I had the pleasure of taking a trip to Lake Winnipeg and looking over the fishing industry, picking up what information I could relative to fish and fishing on that lake. Taking into consideration the laws in force in relation to catching whitefish, to an on-looker, it would seem that the whitefish could never be exterminated from Lake Winnipeg. No pound nets are permitted in the lake, and no gill nets of less than six-inch mesh. Fishing with nets is not permitted within ten miles of the mouth of any river. All nets are taken out of the water on Saturday and are not reset until the following Monday. No small fish are caught. All the whitefish caught will average four pounds each. The government permits but a certain number of fathoms of nets in the lake at one time, and these must be used only on certain grounds. With these restrictions on fishing, it would seem that this lake should be productive of whitefish for all time to come. However, such does not appear to be the case. In talking with the foreman of one of the fishing companies at Selkirk, I asked him if whitefish are as numerous now as when he first went there, which was some twelve years ago. He replied: "when I first came up here, we would go out in the lake with a tug and I would hold up my fingers to the Indians to indicate the number of fish that I wanted. Every finger that I held up would mean one hundred fish, and they were off with their canoes and dip nets, and would get us all the fish we could carry on the tug. Today our tugs go up on the lake to the fishing grounds some two or three hundred miles to get their supply of fish.

If the government of Canada does not soon begin to plant large number of whitefish fry in this lake, in another decade, the whitefish of Lake Winnipeg will be a thing of the past, in spite of the close season and the stringent laws which they enforce for their protection.



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I consider a close season for fishing on the great lakes as being in the interest of the syndicate of fish dealers, who, while the fishing is closed for thirty days, are given an opportunity to dispose of their frozen fish which they have stored in their freezers in the northwest, to the disadvantage of the small fishermen on the lakes.

I believe that if it were not for the liberal planting of whitefish fry in the great lakes, the whitefish would have been practically exterminated years since. What we need is protection for the small fish; and artificial propagation will keep the lakes and streams well supplied with desirable food fish.







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